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# 1982

## Census of Mineral Industries

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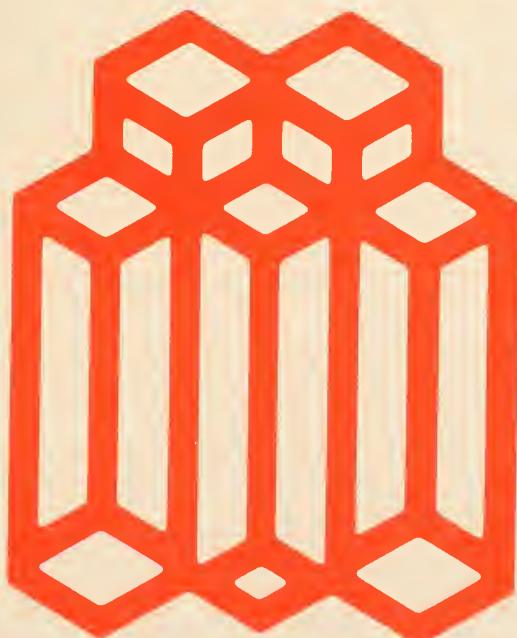
MIC82-A-6

GEOGRAPHIC AREA SERIES

### East South Central States

Alabama, Kentucky, Mississippi, Tennessee

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The publications  
from the 1982 Economic and  
Agriculture Censuses are dedicated  
to the memory of Shirley Kallek,  
Associate Director for Economic Fields.  
During her career at the Bureau of the  
Census (1955 to 1983), she continually  
directed efforts to improve  
the timeliness and accuracy of  
economic statistics.

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# **1982**

# **Census of**

# **Mineral Industries**

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## **East South Central States**

Alabama, Kentucky, Mississippi, Tennessee

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Issued April 1985



**U.S. Department of Commerce**

**Malcolm Baldrige**, Secretary

**Clarence J. Brown**, Deputy Secretary

**Sidney Jones**, Under Secretary for  
Economic Affairs

**BUREAU OF THE CENSUS**

**John G. Keane,**  
Director

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Gaylord E. Worden, Chief

**ACKNOWLEDGMENTS**—Many persons participated in the various activities of the 1982 Census of Mineral Industries. Primary direction of the program was performed by Shirley Kallek, Associate Director for Economic Fields (until May 1983), Charles A. Waite, her successor, and Michael G. Farrell, Assistant Director for Economic and Agriculture Censuses (until August 1984), and John H. Berry, his successor.

This report was prepared in the Industry Division under the general direction of Roger H. Bugenhagen, Chief (until April 1983), and Gaylord E. Worden, his successor. Jacob Silver, Assistant Chief for Mineral Industries and Special Reports, was responsible for the overall management of the census of mineral industries. He guided the planning and implementation of the project and coordinated activities with other divisions.

Program responsibility was shared by the following individuals who participated importantly in the entire program: John P. McNamee, Chief, Minerals Branch; Dale W. Gordon, Chief, Census/ASM Durables Branch; Michael J. Zampogna, Chief, Census/ASM Nondurables Branch; Bernard J. Fitzpatrick, Chief, Census Special Reports Branch (until April 1983), Bruce M. Goldhirsch, his successor; and Kenneth I. Hansen, Chief, Annual Survey of Manufactures Branch.

Robert E. Struble, assisted by Eva Snapp, was directly responsible for the analysis of the data and preparation of this report.

Dr. Edward A. Robinson, Senior Industry Statistician, made significant contributions to the basic economic concepts and content of the census. The computer processing systems were developed and coordinated under the direction of William E. Norfolk, Assistant Chief for Operations. Sarah A. Mathis, Chief, Census Programming Branch, was responsible for implementation of the computer systems, and the computer programs were prepared under the supervision of David Onions and Gerald S. Turnage, assisted by Barbara A. Lambert and Willie T. Robertson. The mathematical techniques and quality control requirements were developed by Preston J. Waite, Assistant Chief for Research and Methodology, assisted by Stacey Cole, Pamela McKee, Amelia M. Perego, Magdalene Ramos, and Anne M. Stephens.

Industry classification was controlled by Bruce M. Goldhirsch; coordination activities with Data Preparation Division were carried out by Eric Taylor; and the various phases of the publication process were coordinated by Lillie Mae Skinner. Other persons made important contributions in such areas as developing specifications, procedures, and resolving problems. They include Richard J. Sterner, Robert A. Rosati, Richard Sweeney, Cyr F. Linonis, Leonard Pomeroy, Patricia L. Horning, and Dennis L. Wagner.

Systems and procedures for mailout, receipt, correspondence, data input, industry classification, other clerical processing, administrative

record processing, and quality control, along with the associated electronic computer programs, were developed in the Economic Surveys Division, W. Joel Richardson, Chief.

Planning, design, review, and composition of report forms were performed in the Administrative Services Division, Robert L. Kirkland, Chief.

Publication planning, design, editorial review, composition, and printing procurement were performed in the Publications Services Division, Raymond J. Koski, Chief.

Geographic coding procedures and associated computer programs were developed in the Geography Division, Robert W. Marx, Chief.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review were performed in the Data Preparation Division, Don L. Adams, Chief.

Computer processing was performed in the Computer Services Division, C. Thomas DiNenna, Chief (until February 1984), and John E. Halterman, his successor.

Photocomposition programs for the statistical tables were developed in the Systems Support Division, Larry J. Patin, Chief (until October 1983), and Arnold E. Levin, his successor.

Special-purpose computer programs for disclosure analysis were developed in the Business Division, Gerald F. Cranford, Chief (until December 1983), and Howard N. Hamilton, his successor.

The overall planning and review of the census operations were performed by the staff of the office of the Assistant Director for Economic and Agriculture Censuses.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

#### Library of Congress Cataloging in Publication Data

Census of mineral industries (1982)  
1982 census of mineral industries.

Contents: [1] Subject series — [2] Industry series — [3] Geographic area series.

Supt. of Docs. no.: C 3.216: MIC82-A-

I. Mineral industries--United States--Statistics.

I. United States. Bureau of the Census. II. Title.  
HD9506.U62C45 1984 338.2'0973

83-600142

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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## ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service

industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications<sup>1</sup> (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and the agriculture census were conducted concurrently.

## USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

<sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

## AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

## CENSUS OF MINERAL INDUSTRIES

### General

The 1982 Census of Mineral Industries is the 19th census of mining establishments in the United States. For 1982, it was conducted jointly with the censuses of manufactures, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses.

This report, from the 1982 Census of Mineral Industries, is one of a series of 9 geographic division reports, each of which provides statistics for individual states within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and on special subjects, such as size of establishments, type of organization, assets, capital expenditures, type of operation, and fuels and electric energy consumed.

These separate reports subsequently will be issued as portions of the final census volume. The volume—Subject, Industry, and Area Statistics—will show comparative figures for industries and States on the more important measures of the activity of mining establishments, such as employment, payrolls, value of shipments and receipts, capital expenditures, value added by mining, selected supplies consumed, and energy used. It will include, besides the industry statistics, geographic area statistics (number of establishments, employment, payrolls, value added, cost of supplies, value of shipments and receipts, and capital expenditures) for each State and county, by industry group and

statistics on selected subjects. The introduction to the final volume of the census of mineral industries will discuss, at greater length, many of the subjects described in this introduction. For example, the volume text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

### Scope of Census and Definition of Mineral Industries

The 1982 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the 1972 Standard Industrial Classification (SIC) Manual.<sup>1</sup> This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This system of classification is in general use among government agencies as well as organizations outside the government.

The SIC manual defines mining in the broad sense to include the extraction of minerals occurring naturally: Solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.) and other preparation needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities are not included in this division but are classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1982 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

<sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

## Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A firm operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or off-shore area adjacent to a State in which it conducted such activities and to include employment, production, and capital expenditures data at the county level. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services by State and county. These consolidated reports were then allocated to county establishments based on the data reported at the county level. The 1982 figures for establishments include the summation of operations within each county allocated from these State or nationwide reports and, therefore, are not comparable to prior censuses.

Establishments, as presented in this report, are those in operation "during the year." In the General Summary report (MIC82-S-1), a comparison will be made at the U.S. level of the number of establishments in operation "during the year" and at the "end of the year."

## Use of Administrative Records

From a mailout universe of about 36,000 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment nonmail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description is incomplete, or where there are relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be

viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1982 census, as in the 1977, 1972, and 1967 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

## Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses, storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (Form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

## Industry Classification of Establishments

Each of the establishments covered by the census was classified in one of 42 mineral industries in accordance with the industry definitions in the SIC system. Under this system of classification, an industry is generally defined as a group of establishments producing the same main product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, and number of employees. Application of these criteria led to formulation of 42 mining industries, to each of which a four-digit code number was assigned. The classification system also provides broader groups of industries, with twenty three-digit groups and five two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics also are usually provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

## CENSUS DISCLOSURE RULES

The Bureau of the Census is prohibited by Federal law from publishing any statistics that disclose information reported by individual companies. However, the number of companies classified in a specific industry is not considered a disclosure, so this item may be given even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. Whenever the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line has been suppressed. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

## MICROFICHE

All data in the final reports and volume are available on microfiche. Microfiche reports are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

## SPECIAL TABULATIONS

Public-use tapes are not available for 1982 Census of Mineral Industries data. However, special tabulations of data collected may be obtained on computer tape or in tabular form. The data

will be in summary form and subject to the same rules prohibiting disclosure of confidential information (such as name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies.
- (N A) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- r Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "l. tons."

# Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendix]

Item	State historical	State by industry	State by industry group and type of operation	State summary	State by county and industry group	State by county and establishment size
<b>Establishments:</b>						
Total number . . . . .	1	2a,2b	3	4a	5	6
Employment size . . . . .				4a		6
<b>Employment and payroll:</b>						
Number of employees . . . . .	1	2a	3	4a	5	
Payroll . . . . .	1	2a		4a	5	
Production, development, and exploration—						
Workers . . . . .	1	2a		4a	5	
Hours . . . . .	1	2a,2b		4a	5	
Wages . . . . .	1	2a,2b		4a	5	
Supplemental labor costs . . . . .				4a		
<b>Value added, cost of supplies, shipments, and inventories:</b>						
Value added by mining . . . . .	1	2a	3	4a	5	
Cost of supplies . . . . .	1	2a,2b		4a	5	
Resales, cost and value . . . . .				4a		
Purchased fuels consumed . . . . .				4a		
Purchased electricity . . . . .				4a		
Cost of contract work . . . . .				4a		
Value of shipments and receipts . . . . .	1	2a		4a	5	
Inventories . . . . .				4b		
<b>New and used capital expenditures, excluding land and rights:</b>						
Total . . . . .	1	2a		4a	5	
Buildings and structures . . . . .				4a		
Machinery and equipment . . . . .				4a		
Mineral exploration and development . . . . .				4a		
Rental payments . . . . .				4a		
Expensed mineral exploration, development, land, and rights . . . . .				4a		

# Alabama

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## **SUMMARY OF FINDINGS**

The total value of shipments and receipts for the 596 establishments classified in mineral industries in Alabama was \$2,429 million in 1982, compared to \$1,079 million in 1977. Value added by mining amounted to \$1,980 million in 1982, and payroll in mining amounted to \$375 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making

comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Alabama was 15.9 thousand in 1982, or 1 percent of the Nation's total. This is an increase of 13 percent over 1977. The bituminous coal and lignite mining industry led all other mineral industries in the State, accounting for 75 percent of the State's mineral industries employment.

**Table 1. Historical Statistics for the State: 1982 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
<b>Mineral industries:</b>											
1982 <sup>1</sup>	2596	2115	15.9	375.0	12.6	23.4	267.9	1 979.7	1 041.7	2 428.5	592.8
1977 <sup>1</sup>	432	122	14.1	224.7	12.0	21.4	177.3	786.9	517.9	1 078.7	226.1
1972 <sup>1</sup>	290	91	8.8	87.9	8.0	16.2	77.1	264.4	164.4	364.5	64.4
1967 <sup>1</sup>	294	83	7.9	51.6	7.1	13.8	44.0	151.1	66.1	196.3	20.9
1963	371	87	8.9	45.8	8.0	15.0	38.7	119.0	65.3	168.7	15.6
1958	316	83	11.9	55.1	10.6	17.5	45.6	127.1	82.7	196.0	13.7
<b>Excluding oil and gas extraction industries:</b>											
1982 <sup>1</sup>	246	90	13.7	324.2	11.0	19.6	229.4	944.0	548.3	1 203.5	288.8
1977 <sup>1</sup> <sup>3</sup>	344	110	13.3	211.4	11.4	20.3	168.1	552.5	427.4	830.1	149.8
1972 <sup>1</sup> <sup>3</sup>	243	82	8.5	84.9	7.8	15.5	75.0	231.9	132.1	323.6	40.4
1967 <sup>1</sup> <sup>3</sup>	278	85	7.9	51.9	7.2	14.1	44.5	139.1	62.2	182.9	18.4
1963 <sup>3</sup>	375	94	9.1	46.1	8.3	15.4	39.4	107.3	52.7	149.0	11.0
1958 <sup>3</sup>	306	85	12.3	55.6	10.9	18.0	46.2	126.2	75.3	191.8	9.6

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

<sup>1</sup>Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

<sup>2</sup>Not comparable to prior years. See Introduction for further explanation.

<sup>3</sup>Includes data for mining operations at manufacturing locations.

**Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982								1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		E <sup>1</sup>	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)				
	All mineral industries ----	-	596	115	15.9	375.0	12.6	23.4	267.9	1 041.7	2 428.5	592.8
12	Bituminous coal and lignite mining -----	-	151	66	11.9	288.9	9.7	17.2	212.8	874.8	503.3	1 098.8
121	Bituminous coal and lignite mining -----	-	151	66	11.9	288.9	9.7	17.2	212.8	874.8	503.3	1 098.8
1211	Bituminous coal and lignite -----	-	146	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction -----	-	350	25	2.2	50.8	1.7	3.7	38.5	1 035.7	493.3	1 225.0
1311	Crude petroleum and natural gas-----	-	119	6	.4	11.4	.3	.6	7.2	858.3	269.1	883.0
1321	Natural gas liquids -----	-	5	4	.1	4.4	.1	.3	4.0	74.2	137.1	210.0
138	Oil and gas field services -----	E2	226	15	1.6	35.1	1.2	2.9	27.3	103.2	87.2	132.0
1381	Drilling oil and gas wells -----	E3	50	6	.7	18.0	.6	1.4	15.6	52.5	58.1	68.4
1382	Oil and gas field exploration services -----	-	53	1	.2	3.6	.1	.3	2.7	9.9	4.5	12.6
1389	Oil and gas field services, n.e.c. -----	E1	123	8	.7	13.4	.5	1.1	9.0	40.8	24.6	51.0
14	Nonmetallic minerals, except fuels -----	E1	87	24	1.8	34.9	1.2	2.4	16.3	66.7	44.7	101.9
142	Crushed and broken stone, including riprap -----	-	32	11	1.1	24.3	.7	1.3	9.1	42.5	27.0	63.9
1422	Crushed and broken limestone -----	-	26	8	.7	19.0	.4	.7	5.0	26.7	17.9	40.3
1429	Crushed and broken stone, n.e.c. -----	E1	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	E4	37	7	.4	5.2	.3	.6	4.0	12.9	8.2	19.7
1442	Construction sand and gravel -----	E4	33	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals -----	-	12	5	.3	4.2	.2	.3	2.5	6.5	8.1	12.4
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	E1	6	2	.1	2.8	.1	.1	1.5	2.0	(D)	4.4

<sup>1</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

**Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures .....	15	.4	3.8	7.2	(X)
Dimension stone .....	1	(D)	(D)	(D)	
Crushed and broken stone, including riprap .....	9	.3	3.2	5.8	5 427.5
Crushed and broken limestone .....	9	.3	3.2	5.8	5 427.5

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

**Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish- ments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only			Mines with preparation plants				Separately operated prepara- tion plants	Undistrib- uted <sup>1</sup>		
				Total	Under- ground mines	Open pit mines	Combi- nation methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combi- nation and other methods			
	<b>ALL MINERAL INDUSTRIES</b>													
	Establishments..... number .....	596	575	225	90	34	101	77	13	61	3	7	266	21
	Employees ..... 1,000 .....	15.9	15.8	3.3	1.8	(D)	(D)	9.9	(D)	3.4	(D)	(D)	(D)	(Z)
	Value added in mining ..... mil. dol. ....	1 979.7	1 982.7	1 044.9	97.7	(D)	(D)	727.9		301.7				-3.0
10	<b>METAL MINING</b>													
	Establishments..... number .....	8	8	4	1	3	-	-	-	-	-	-	4	-
	Employees ..... 1,000 .....	(Z)	2.6	(D)	(D)	(D)	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil. dol. ....	2.6	2.6	(D)	(D)	(D)	-	-	-	-	-	-		
101	<b>Iron ores</b>													
	Establishments..... number .....	2	2	2	-	2	-	-	-	-	-	-	-	-
	Employees ..... 1,000 .....	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil. dol. ....	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
104	<b>Gold and silver ores</b>													
	Establishments..... number .....	1	1	1	1	-	-	-	-	-	-	-	-	-
	Employees ..... 1,000 .....	(D)	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil. dol. ....	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
105	<b>Bauxite and other aluminum ores</b>													
	Establishments..... number .....	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees ..... 1,000 .....	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil. dol. ....	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
106	<b>Ferroalloy ores, except vanadium</b>													
	Establishments..... number .....	2	2	-	-	-	-	-	-	-	-	-	2	-
	Employees ..... 1,000 .....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil. dol. ....	(D)	(D)	-	-	-	-	-	-	-	-	-		
108	<b>Metal mining services</b>													
	Establishments..... number .....	2	2	-	-	-	-	-	-	-	-	-	2	-
	Employees ..... 1,000 .....	-	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining ..... mil. dol. ....	(Z)	(Z)	-	-	-	-	-	-	-	-	-		

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—  
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish-ments	Producing establishments										Nonproducing estab-lishments	
			Mines only				Mines with preparation plants				Sepa-rately operated prepa-ration plants	Undistrib-uted <sup>1</sup>		
			Total	Under-ground mines	Open pit mines	Combina-tion methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combina-tion and other methods				
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>													
	Establishments—number—	151	149	111	89	22	—	26	13	11	2	3	9	
	Employees—1,000—	11.9	(D)	2.7	(D)	(D)	—	8.7	(D)	(D)	(D)	(D)	(D)	
	Value added in mining—mil. dol.—	874.8		178.4				673.7						
121	<b>Bituminous coal and lignite mining</b>													
	Establishments—number—	151	149	111	89	22	—	26	13	11	2	3	9	
	Employees—1,000—	11.9	(D)	2.7	(D)	(D)	—	8.7	(D)	(D)	(D)	(D)	(D)	
	Value added in mining—mil. dol.—	874.8		178.4				673.7						
13	<b>OIL AND GAS EXTRACTION</b>													
	Establishments—number—	350	331	101	—	—	101	—	—	—	—	4	226	
	Employees—1,000—	2.2	(D)	(D)	—	—	(D)	—	—	—	—	.1	1.6	
	Value added in mining—mil. dol.—	1 035.7			—	—	(D)	—	—	—	—	74.2	103.2	
131	<b>Crude petroleum and natural gas</b>													
	Establishments—number—	119	101	101	—	—	101	—	—	—	—	—	—	
	Employees—1,000—	.4	(D)	(D)	—	—	(D)	—	—	—	—	—	—	
	Value added in mining—mil. dol.—	858.3			—	—	(D)	—	—	—	—	—	18	
132	<b>Natural gas liquids</b>													
	Establishments—number—	5	4	—	—	—	—	—	—	—	—	4	—	
	Employees—1,000—	.1	(D)	(D)	—	—	—	—	—	—	—	.1	—	
	Value added in mining—mil. dol.—	74.2		74.2	—	—	—	—	—	—	—	74.2	—	
138	<b>Oil and gas field services</b>													
	Establishments—number—	226	226	—	—	—	—	—	—	—	—	—	226	
	Employees—1,000—	1.6	1.6	—	—	—	—	—	—	—	—	—	1.6	
	Value added in mining—mil. dol.—	103.2		103.2	—	—	—	—	—	—	—	—	103.2	
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>													
	Establishments—number—	87	87	9	—	9	—	51	—	50	1	—	27	
	Employees—1,000—	1.8	1.8	.2	—	.2	—	1.1	—	(D)	(D)	—	5	
	Value added in mining—mil. dol.—	66.7		66.7	4.0	4.0	—	54.2	—	(D)	(D)	—	8.5	
141	<b>Dimension stone</b>													
	Establishments—number—	1	1	1	—	1	—	—	—	—	—	—	—	
	Employees—1,000—	(D)	(D)	(D)	—	(D)	—	—	—	—	—	—	—	
	Value added in mining—mil. dol.—				—	(D)	—	—	—	—	—	—	—	
142	<b>Crushed and broken stone, including riprap</b>													
	Establishments—number—	32	32	—	—	—	—	29	—	29	—	—	3	
	Employees—1,000—	1.1	1.1	—	—	—	—	(D)	—	(D)	—	—	(D)	
	Value added in mining—mil. dol.—	42.5		42.5	—	—	—	42.5	—	42.5	—	—	—	
144	<b>Sand and gravel</b>													
	Establishments—number—	37	37	1	—	1	—	15	—	14	1	—	21	
	Employees—1,000—	.4	.4	(D)	—	(D)	—	.2	(D)	(D)	(D)	—	(D)	
	Value added in mining—mil. dol.—	12.9		12.9	—	—	—	6.2	—	(D)	—	—	—	

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish-ments	Producing establishments										Nonpro-duc-ing estab-lish-ments	
			Mines only				Mines with preparation plants				Sep-a-rately operated prepa-ration plants	Undistrib-uted <sup>1</sup>		
			Total	Total	Under-ground mines	Open pit mines	Combi-na-tion methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combi-na-tion and other methods			
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS—Con.</b>													
145	<b>Clay, ceramic, and refractory minerals</b>													
	Establishments—number—	12	12	7	—	7	—	5	—	5	—	—	—	
	Employees ----- 1,000—	.3	.3	(D)	—	(D)	—	(D)	—	(D)	—	—	—	
	Value added in mining ----- mil. dol.—	6.5	6.5	(D)	—	(D)	—	(D)	—	(D)	—	—	—	
147	<b>Chemical and fertilizer mineral mining</b>													
	Establishments—number—	1	1	—	—	—	—	1	—	1	—	—	—	
	Employees ----- 1,000—	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	
	Value added in mining ----- mil. dol.—	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	
148	<b>Nonmetallic minerals services</b>													
	Establishments—number—	3	3	—	—	—	—	—	—	—	—	—	3	
	Employees ----- 1,000—	(D)	(D)	—	—	—	—	—	—	—	—	—	—	
	Value added in mining ----- mil. dol.—	(D)	(D)	—	—	—	—	—	—	—	—	—	—	
149	<b>Miscellaneous nonmetallic minerals</b>													
	Establishments—number—	1	1	—	—	—	—	1	—	1	—	—	—	
	Employees ----- 1,000—	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	
	Value added in mining ----- mil. dol.—	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	

<sup>1</sup>Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number—	596	Cost of supplies ----- mil. dol.—	1 041.7
With 0 to 19 employees ----- do—	481	Supplies used, minerals received, and purchased machinery installed ----- do—	790.1
With 20 to 99 employees ----- do—	88	Resales ----- do—	4.2
With 100 employees or more ----- do—	27	Purchased fuels consumed ----- do—	54.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000—	15.9	Quantity ----- mil. kWh—	1 054.2
Payroll for year ----- mil. dol.—	375.0	Cost ----- mil. dol.—	48.9
Production, development, and exploration workers:		Electric energy generated less sold ----- mil. kWh—	39.8
Average for year ----- 1,000—	12.6	Contract work ----- mil. dol.—	144.1
March ----- do—	13.2	Cost of purchased communication services ----- do—	1.6
May ----- do—	13.0	Value of shipments and receipts ----- do—	2 428.5
August ----- do—	12.2	Value of resales ----- do—	4.3
November ----- do—	12.1	Capital expenditures during year (except land and mineral rights) ----- do—	592.8
Hours:		New capital expenditures during year ----- do—	378.3
January to March ----- millions—	23.4	Buildings and other structures, except land ----- do—	9.1
April to June ----- do—	6.3	Machinery and equipment ----- do—	369.2
July to September ----- do—	6.2	Used capital expenditures during year ----- do—	35.3
October to December ----- do—	5.5	Buildings and other structures, except land ----- do—	.5
Wages ----- mil. dol.—	5.3	Machinery and equipment ----- do—	34.9
Supplemental labor costs not included in payroll ----- do—	148.9	Mineral exploration and development <sup>1</sup> ----- do—	179.3
Legally required expenditures, including Social Security contributions ----- do—	54.9	Rental payments during year ----- do—	19.2
Payments for voluntary programs ----- do—	93.9	Buildings and other structures, except land ----- do—	5.7
Value added by mining ----- do—	1 979.7	Machinery and equipment ----- do—	13.6
Expensed mineral exploration, development, land, and rights <sup>1,2</sup> ----- do—		do—	49.1

<sup>1</sup>Excludes data for mining service industries and natural gas liquids industry where data were not collected.

<sup>2</sup>Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

**Table 4b. Inventories for the State: End of 1981 and 1982**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item		End of 1981	End of 1982
<b>Total Inventories<sup>1</sup></b>		<b>128.1</b>	<b>158.0</b>
Detail by method of valuation:			
Subject to LIFO costing <sup>2</sup> :			
LIFO reserve		30.0	37.1
LIFO value		(D)	10.6
Not subject to LIFO costing		73.3	26.4
Valuation method not reported <sup>3</sup>		(D)	92.2
Amount subject to LIFO reported without associated reserve and value <sup>4</sup>		(D)	(D)

<sup>1</sup>Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

<sup>2</sup>Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

<sup>3</sup>Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

<sup>4</sup>Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
	Alabama-----	-	596	115	15.9	375.0	12.6	23.4	267.9	1 979.7	1 041.7	2 428.5	592.8	14.1	786.9
	Baldwin County-----	-	20	1	.1	1.5	.1	.1	1.2	13.5	(D)	10.7	(D)	(NA)	(NA)
13	Oil and gas extraction-----	-	19	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	E1	13	1	.1	1.5	.1	.1	1.2	3.9	4.5	6.3	2.0	(NA)	(NA)
	Blount County-----	E4	16	7	.4	5.9	.3	.6	5.1	21.1	11.8	29.6	3.3	.1	5.3
12	Bituminous coal and lignite mining-----	E5	11	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	5.3
121	Bituminous coal and lignite mining-----	E5	11	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	5.3
	Calhoun County-----	E3	6	1	.1	1.2	.1	.1	1.0	5.2	3.6	7.2	1.5	.1	4.7
	Choctaw County-----	-	26	-	.1	1.6	.1	.2	1.3	40.0	19.2	41.0	18.2	(NA)	(NA)
13	Oil and gas extraction-----	-	26	-	.1	1.6	.1	.2	1.3	40.0	19.2	41.0	18.2	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	6	-	(Z)	.2	(Z)	(Z)	.2	36.9	15.7	36.1	16.5	(NA)	(NA)
	Clarke County-----	-	21	-	.1	1.1	(Z)	.1	1.0	36.2	9.9	25.1	20.9	.1	5.6
13	Oil and gas extraction-----	-	20	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	7	-	(Z)	.3	(Z)	(Z)	.3	34.0	(D)	22.0	(D)	(NA)	(NA)
	Cullman County-----	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining-----	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	De Kalb County-----	E6	6	2	.1	1.9	.1	.2	1.6	3.9	5.0	7.8	1.1	(NA)	(NA)
12	Bituminous coal and lignite mining-----	E6	4	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E6	4	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Escambia County-----	-	43	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	112.7
13	Oil and gas extraction-----	-	40	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	13	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
132	Natural gas liquids-----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	E1	26	3	.3	8.9	.3	.8	8.1	25.1	(D)	29.6	(D)	.2	10.6
	Fayette County-----	-	21	2	.2	3.5	.1	.2	1.9	59.2	(D)	64.2	(D)	.2	8.9
13	Oil and gas extraction-----	-	19	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	7	1	.1	1.6	(Z)	.1	.9	56.2	(D)	59.9	(D)	(NA)	(NA)
	Jackson County-----	E6	6	4	.2	3.8	.2	.3	3.1	22.2	9.7	26.1	5.8	(NA)	(NA)
12	Bituminous coal and lignite mining-----	E5	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E5	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
	Alabama—Con.														
	Jefferson County -----	E1	68	29	5.3	121.5	4.2	7.5	85.6	394.0	159.6	473.0	80.7	4.7	150.9
12	Bituminous coal and lignite mining -----	E1	48	23	4.8	106.4	4.1	7.2	83.9	382.7	150.2	453.1	79.9	4.4	141.0
121	Bituminous coal and lignite mining -----	E1	48	23	4.8	106.4	4.1	7.2	83.9	382.7	150.2	453.1	79.9	4.4	141.0
13	Oil and gas extraction -----	E9	11	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E9	6	—	(Z)	.1	(Z)	(Z)	.1	4.8	(D)	7.1	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	—	8	5	.4	14.2	.1	.2	1.3	5.9	(D)	11.9	(D)	(NA)	(NA)
142	Crushed and broken stone, including riprap -----	—	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Lamar County -----	—	24	2	.1	3.1	.1	.2	1.8	98.3	21.6	100.4	19.5	(NA)	(NA)
13	Oil and gas extraction -----	—	24	2	.1	3.1	.1	.2	1.8	98.3	21.6	100.4	19.5	(NA)	(NA)
131	Crude petroleum and natural gas-----	—	11	1	.1	1.6	(Z)	.1	1.0	95.0	(D)	96.0	(D)	(NA)	(NA)
	Madison County -----	E7	3	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E9	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E9	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Marshall County -----	—	5	2	.1	1.1	.1	.1	.9	3.3	(D)	5.1	(D)	(NA)	(NA)
	Mobile County -----	—	68	10	.7	16.0	.6	1.2	12.9	367.9	159.2	485.2	41.9	.5	66.7
13	Oil and gas extraction -----	—	65	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	—	22	3	.1	3.5	.1	.2	2.1	309.4	62.0	337.9	33.4	.1	50.3
132	Natural gas liquids -----	—	3	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E4	40	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Monroe County -----	—	16	—	.1	1.4	(Z)	.1	1.1	15.0	(D)	15.6	(D)	(NA)	(NA)
13	Oil and gas extraction -----	—	15	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	—	4	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	—	11	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Montgomery County -----	—	7	3	.1	1.5	.1	.2	1.3	3.5	2.0	5.4	.2	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	—	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel -----	—	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Shelby County -----	—	10	1	.1	1.2	(Z)	.1	.5	2.6	5.4	6.7	1.3	.2	10.0
	Talladega County -----	—	5	3	.4	5.8	.3	.6	4.3	17.1	(D)	26.4	(D)	.7	13.8
14	Nonmetallic minerals, except fuels-----	—	5	3	.4	5.8	.3	.6	4.3	17.1	(D)	26.4	(D)	(NA)	(NA)
142	Crushed and broken stone, including riprap -----	—	5	3	.4	5.8	.3	.6	4.3	17.1	(D)	26.4	(D)	(NA)	(NA)
	Tuscaloosa County -----	—	31	7	1.4	30.4	1.1	2.1	23.7	72.8	72.1	110.5	34.4	1.2	39.1
12	Bituminous coal and lignite mining -----	—	11	7	1.3	28.6	1.1	1.9	22.5	67.8	(D)	99.7	(D)	1.1	38.6
121	Bituminous coal and lignite mining -----	—	11	7	1.3	28.6	1.1	1.9	22.5	67.8	(D)	99.7	(D)	1.1	38.6
13	Oil and gas extraction -----	E1	17	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	—	3	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Walker County -----	E1	46	22	4.8	137.2	3.8	6.6	92.0	360.0	(D)	453.7	(D)	4.1	222.1
12	Bituminous coal and lignite mining -----	E1	38	20	4.7	136.3	3.8	6.5	91.4	356.9	(D)	449.3	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	38	20	4.7	136.3	3.8	6.5	91.4	356.9	(D)	449.3	(D)	(NA)	(NA)
	Washington County -----	—	16	1	.1	1.7	.1	.1	1.6	51.5	25.4	67.5	9.4	(NA)	(NA)
13	Oil and gas extraction -----	—	15	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	—	7	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
132	Natural gas liquids -----	—	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Winston County -----	E2	12	2	.2	3.2	.1	.3	2.5	16.3	4.7	17.1	3.9	.2	9.6
13	Oil and gas extraction -----	—	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
13	Alabama—Con. Winston County—Con. Oil and gas extraction—Con.													
131	Crude petroleum and natural gas	—	2	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

<sup>1</sup>County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.

<sup>2</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>3</sup>Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class			All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)
								All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)		
<b>Alabama</b> -----	596	8	—	151	350	87	<b>Alabama—Con.</b>								
0 to 4 employees-----	320	4	—	33	261	22	<b>Colbert County</b> -----	4	—	—	—	—	—	1	3
5 to 9 employees-----	89	2	—	25	42	20	0 to 19 employees-----	4	—	—	—	—	—	1	3
10 to 19 employees-----	72	2	—	27	22	21	<b>Conecuh County</b> -----	5	—	—	—	—	—	3	2
20 to 49 employees-----	63	—	—	31	17	15	0 to 19 employees-----	5	—	—	—	—	—	3	2
50 to 99 employees-----	25	—	—	14	6	5	<b>Coosa County</b> -----	2	1	—	—	—	—	1	1
100 to 249 employees-----	13	—	—	7	2	4	0 to 19 employees-----	2	1	—	—	—	—	1	1
250 to 499 employees-----	5	—	—	5	—	—	<b>Covington County</b> -----	1	—	—	—	—	—	1	—
500 to 999 employees-----	8	—	—	8	—	—	0 to 19 employees-----	1	—	—	—	—	—	1	—
2,500 employees or more-----	1	—	—	1	—	—	<b>Crenshaw County</b> -----	2	2	—	—	—	—	—	—
<b>Autauga County</b> -----	2	—	—	—	1	1	0 to 19 employees-----	2	2	—	—	—	—	—	—
0 to 19 employees-----	1	—	—	—	1	—	<b>Cullman County</b> -----	4	—	—	—	4	—	—	—
20 to 99 employees-----	1	—	—	—	—	1	0 to 19 employees-----	3	—	—	—	3	—	—	—
<b>Baldwin County</b> -----	20	—	—	—	19	1	<b>Covington County</b> -----	1	—	—	—	1	—	—	—
0 to 19 employees-----	19	—	—	—	18	1	0 to 19 employees-----	1	—	—	—	1	—	—	—
20 to 99 employees-----	1	—	—	—	1	—	<b>Crenshaw County</b> -----	2	2	—	—	—	—	—	—
<b>Barbour County</b> -----	6	2	—	—	2	2	0 to 19 employees-----	2	2	—	—	—	—	—	—
0 to 19 employees-----	6	2	—	—	2	2	<b>Cullman County</b> -----	4	—	—	—	4	—	—	—
<b>Bibb County</b> -----	4	—	—	1	3	—	0 to 19 employees-----	3	—	—	—	1	—	1	1
0 to 19 employees-----	4	—	—	1	3	—	<b>Dale County</b> -----	2	—	—	—	—	—	1	1
<b>Blount County</b> -----	16	—	—	11	5	—	0 to 19 employees-----	2	—	—	—	—	—	1	1
0 to 19 employees-----	9	—	—	4	5	—	<b>Dallas County</b> -----	4	—	—	—	—	—	1	3
20 to 99 employees-----	7	—	—	7	—	—	0 to 19 employees-----	3	—	—	—	1	—	2	1
<b>Calhoun County</b> -----	6	—	—	1	1	4	<b>De Kalb County</b> -----	6	—	—	4	1	1	1	1
0 to 19 employees-----	5	—	—	1	1	3	0 to 19 employees-----	4	—	—	2	1	1	1	1
20 to 99 employees-----	1	—	—	—	—	1	20 to 99 employees-----	2	—	—	2	—	—	—	—
<b>Cherokee County</b> -----	2	—	—	—	2	—	<b>Elmore County</b> -----	1	—	—	—	—	—	1	1
0 to 19 employees-----	2	—	—	—	2	—	0 to 19 employees-----	1	—	—	—	—	—	1	1
<b>Chilton County</b> -----	3	—	—	—	—	3	<b>Escambia County</b> -----	43	—	—	—	40	3	—	—
0 to 19 employees-----	2	—	—	—	—	2	0 to 19 employees-----	38	—	—	—	35	3	—	—
20 to 99 employees-----	1	—	—	—	—	1	20 to 99 employees-----	4	—	—	4	—	—	1	—
<b>Choctaw County</b> -----	26	—	—	—	26	—	100 to 249 employees -----	1	—	—	—	—	—	—	—
0 to 19 employees-----	26	—	—	—	26	—	<b>Etowah County</b> -----	3	—	—	—	—	—	3	—
<b>Clarke County</b> -----	21	—	—	—	20	1	0 to 19 employees-----	3	—	—	—	—	—	3	—
0 to 19 employees-----	21	—	—	—	20	1	<b>Fayette County</b> -----	21	—	—	1	19	1	17	1
<b>Cleburne County</b> -----	1	1	—	—	—	—	0 to 19 employees-----	19	—	—	1	—	—	2	1
0 to 19 employees-----	1	1	—	—	—	—	20 to 99 employees -----	2	—	—	—	—	—	—	—

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Alabama—Con.							Alabama—Con.							
Franklin County -----	5	-	-	1	2	2	Monroe County -----	16	-	-	-	-	15	1
0 to 19 employees-----	5	-	-	1	2	2	0 to 19 employees-----	16	-	-	-	-	15	1
Greene County -----	2	-	-	-	-	2	Montgomery County -----	7	-	-	-	-	1	6
0 to 19 employees-----	2	-	-	-	-	2	0 to 19 employees-----	4	-	-	-	-	1	3
Hale County -----	4	-	-	-	-	4	20 to 99 employees -----	3	-	-	-	-	3	
0 to 19 employees-----	4	-	-	-	-	4	Morgan County -----	3	-	-	-	-	1	2
Henry County -----	1	-	-	-	-	-	0 to 19 employees-----	2	-	-	-	-	1	1
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees -----	1	-	-	-	-	1	1
Houston County -----	3	-	-	-	-	2	Perry County -----	2	-	-	-	-	2	-
0 to 19 employees-----	3	-	-	-	-	2	0 to 19 employees-----	2	-	-	-	-	2	-
Jackson County -----	6	-	-	3	1	2	Pickens County -----	7	-	-	-	1	4	2
0 to 19 employees-----	2	-	-	-	-	1	0 to 19 employees-----	6	-	-	1	4	1	
20 to 99 employees -----	4	-	-	3	-	1	20 to 99 employees -----	1	-	-	-	-	1	
Jefferson County -----	68	1	-	48	11	8	Pike County -----	1	-	-	-	-	1	-
0 to 19 employees-----	39	1	-	25	10	3	Russell County -----	5	-	-	-	-	2	3
20 to 99 employees -----	18	-	-	13	1	4	0 to 19 employees-----	5	-	-	-	-	2	3
100 to 249 employees -----	5	-	-	4	-	1	St. Clair County -----	7	-	-	2	3	2	
250 employees or more -----	6	-	-	6	-	-	0 to 19 employees-----	5	-	-	2	2	1	
Lamar County -----	24	-	-	-	24	-	20 to 99 employees -----	1	-	-	-	-	1	-
0 to 19 employees-----	22	-	-	-	22	-	100 to 249 employees -----	1	-	-	-	-	1	-
20 to 99 employees -----	2	-	-	-	2	-	Shelby County -----	10	-	-	1	4	5	
Lawrence County -----	4	-	-	-	-	3	0 to 19 employees-----	9	-	-	1	4	4	
0 to 19 employees-----	4	-	-	-	-	1	20 to 99 employees -----	1	-	-	-	-	1	
Limestone County -----	1	-	-	-	-	-	Sumter County -----	5	-	-	-	-	5	-
0 to 19 employees-----	1	-	-	-	-	1	0 to 19 employees-----	5	-	-	-	-	5	-
Lowndes County -----	1	-	-	-	-	-	Talladega County -----	5	-	-	-	-	5	-
20 to 99 employees -----	1	-	-	-	-	1	0 to 19 employees-----	2	-	-	-	-	2	1
Macon County -----	2	-	-	-	-	1	20 to 99 employees -----	1	-	-	-	-	1	-
0 to 19 employees-----	2	-	-	-	-	1	100 to 249 employees -----	2	-	-	-	-	2	-
Madison County -----	3	-	-	1	1	1	Tuscaloosa County -----	31	-	-	11	17	3	
0 to 19 employees-----	1	-	-	1	-	-	0 to 19 employees-----	24	-	-	4	17	3	
20 to 99 employees -----	2	-	-	-	1	1	20 to 99 employees -----	5	-	-	5	-	-	
Marengo County -----	2	-	-	-	-	2	250 employees or more -----	2	-	-	2	-	-	
0 to 19 employees-----	2	-	-	-	-	-	Walker County -----	46	-	-	38	5	3	
20 to 99 employees -----	3	-	-	-	-	1	0 to 19 employees-----	24	-	-	18	5	1	
100 to 249 employees -----	2	-	-	2	-	1	20 to 99 employees -----	13	-	-	11	-	2	
250 employees or more -----	6	-	-	-	-	1	100 to 249 employees -----	3	-	-	3	-	-	
300 employees or more -----	1	-	-	-	-	1	250 employees or more -----	6	-	-	6	-	-	
Marion County -----	13	-	-	12	-	1	Washington County -----	16	-	-	-	-	15	1
0 to 19 employees-----	13	-	-	12	-	1	0 to 19 employees-----	15	-	-	-	-	14	1
20 to 99 employees -----	13	-	-	-	-	1	20 to 99 employees -----	1	-	-	-	-	1	-
Marshall County -----	5	-	-	2	2	1	Wilcox County -----	1	-	-	-	-	1	-
0 to 19 employees-----	3	-	-	-	2	1	0 to 19 employees-----	1	-	-	-	-	1	-
20 to 99 employees -----	2	-	-	2	-	1	Winston County -----	12	-	-	9	3	-	
100 to 249 employees -----	1	-	-	-	-	1	0 to 19 employees-----	10	-	-	8	2	-	
250 employees or more -----	1	-	-	-	-	2	20 to 99 employees -----	2	-	-	1	1	-	
Mobile County -----	68	1	-	-	65	2	Offshore -----	5	-	-	-	-	5	-
0 to 19 employees-----	58	1	-	-	55	2	0 to 19 employees-----	5	-	-	-	-	5	-
20 to 99 employees -----	9	-	-	-	9	-	20 to 99 employees -----	-	-	-	-	-	-	
100 to 249 employees -----	1	-	-	-	1	-	100 to 249 employees -----	-	-	-	-	-	5	

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## **SUMMARY OF FINDINGS**

The total value of shipments and receipts for the 2,139 establishments classified in mineral industries in Kentucky was \$7,336 million in 1982, or 3 percent of the Nation's total. This compares to \$3,814 million in 1977 when it was 4 percent of the Nation's total. Value added by mining amounted to \$4,142 million in 1982, and payroll in mining amounted to \$1,372 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels.

When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Kentucky was 54.2 thousand in 1982, or 5 percent of the Nation's total. This is an increase of 13 percent over 1977. The bituminous coal and lignite mining industry led all other mineral industries in the State, accounting for 88 percent of the State's mineral industries employment.

**Table 1. Historical Statistics for the State: 1982 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 <sup>1</sup>	2 139	2530	54.2	1 371.7	44.9	87.9	1 108.6	4 141.9	3 831.2	7 336.1	637.0
1977 <sup>1</sup>	1 771	427	47.8	822.8	41.4	79.9	679.6	2 515.3	1 779.7	3 814.4	480.6
1972 <sup>1</sup>	1 240	296	30.2	308.0	26.6	52.5	259.2	780.0	555.8	1 201.3	134.4
1967 <sup>1</sup>	1 267	259	24.6	157.1	22.0	42.1	132.6	403.0	307.2	627.3	82.9
1963	2 066	319	27.8	131.6	24.9	45.4	115.1	337.4	257.2	541.8	52.7
1958	2 111	334	36.1	149.5	32.1	53.1	129.0	320.1	217.2	492.5	45.0
Excluding oil and gas extraction industries:											
1982 <sup>1</sup>	1 475	486	50.1	1 294.5	42.2	82.4	1 060.1	3 666.8	3 003.6	6 097.9	572.4
1977 <sup>1</sup>	1 492	407	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1972 <sup>1</sup>	981	269	28.0	291.8	24.8	48.9	246.7	719.2	463.3	1 059.9	122.5
1967 <sup>1</sup>	916	230	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1963 <sup>2</sup>	1 402	282	23.9	115.1	21.6	39.1	101.7	262.3	182.5	408.6	36.3
1958 <sup>3</sup>	1 488	284	31.2	132.5	27.8	45.3	114.8	253.0	168.3	398.0	23.3

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

<sup>1</sup>Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

<sup>2</sup>Not comparable to prior years. See Introduction for further explanation.

<sup>3</sup>Includes data for mining operations at manufacturing locations.

**Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982									1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		E <sup>1</sup> Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
12	All mineral industries ----	E1 2 139	530	54.2	1 371.7	44.9	87.9	1 108.6	4 141.9	3 831.2	7 336.1	637.0
121	Bituminous coal and lignite mining -----	E1 1 343	445	47.9	1 258.5	40.4	78.7	1 033.7	3 570.2	2 948.5	5 961.4	557.3
1211	Bituminous coal and lignite mining -----	E1 1 343	445	47.9	1 258.5	40.4	78.7	1 033.7	3 570.2	2 948.5	5 961.4	557.3
1213	Bituminous coal and lignite mining services -----	E1 1 252	429	46.8	1 233.7	39.4	76.8	1 011.5	3 497.0	2 917.1	5 867.9	546.2
13	Oil and gas extraction -----	E1 664	44	4.0	77.3	2.7	5.5	48.6	475.1	827.7	1 238.1	64.6
1311	Crude petroleum and natural gas-----	E4 318	25	2.4	44.8	1.3	2.5	22.5	297.3	118.5	371.2	44.6
1321	Natural gas liquids -----	- 4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA (D)
138	Oil and gas field services -----	E3 342	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
1381	Drilling oil and gas wells -----	E4 144	5	.7	12.3	.6	1.3	10.7	32.5	15.8	41.4	6.8
1382	Oil and gas field exploration services -----	E5 27	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1
1389	Oil and gas field services, n.e.c. -----	E2 171	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2
14	Nonmetallic minerals, except fuels -----	E2 124	41	2.2	35.3	1.8	3.6	25.9	95.6	54.5	135.1	15.0
142	Crushed and broken stone, including riprap -----	E2 91	36	1.9	29.3	1.5	3.0	21.2	78.2	45.4	111.2	12.4
1422	Crushed and broken limestone -----	E2 85	36	1.8	28.6	1.4	2.9	20.7	76.5	(D)	108.9	(D)
144	Sand and gravel -----	E5 26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
1442	Construction sand and gravel -----	E5 25	2	.2	3.4	.2	.4	3.0	10.8	5.6	14.7	1.7
145	Clay, ceramic, and refractory minerals -----	- 5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2

<sup>1</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

**Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	5				
Crushed and broken stone, including riprap	2	(D)	(D)	(D)	(X)
Crushed and broken limestone	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

**Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish- ments	Producing establishments										Nonpro- ducing estab- lishments	
			Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>		
			Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods				
	<b>ALL MINERAL INDUSTRIES</b>													
Establishments-----number--	2 139	2 099	1 339	922	98	319	235	81	122	32	41	484	40	
Employees -----1,000--	54.2	53.8	26.4	18.5	4.4	3.5	22.0	12.2	5.4	4.4	1.3	4.2	.4	
Value added in mining ----- mil. dol.--	4 141.9	4 141.4	1 929.2	1 075.7	464.9	388.5	1 776.8	889.1	479.2	408.5	273.9	161.4	.5	
10	<b>METAL MINING</b>													
Establishments-----number--	8	8	1	1	-	-	-	-	-	-	-	7	-	
Employees -----1,000--	(Z)	(Z)	(D)	(D)	-	-	-	-	-	-	-	(D)	-	
Value added in mining ----- mil. dol.--	1.0	1.0	(D)	(D)	-	-	-	-	-	-	-	-	-	
104	<b>Gold and silver ores</b>													
Establishments-----number--	1	1	1	1	-	-	-	-	-	-	-	-	-	
Employees -----1,000--	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-	
Value added in mining ----- mil. dol.--	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-	
108	<b>Metal mining services</b>													
Establishments-----number--	7	7	-	-	-	-	-	-	-	-	-	7	-	
Employees -----1,000--	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	(D)	-	
Value added in mining ----- mil. dol.--	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	(D)	-	
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>													
Establishments-----number--	1 343	1 319	1 026	921	91	14	144	71	45	28	36	113	24	
Employees -----1,000--	47.9	47.6	24.2	(D)	4.4	(D)	20.1	12.0	3.8	4.3	(D)	(D)	.3	
Value added in mining ----- mil. dol.--	3 570.2	3 570.4	1 628.3	(D)	462.6	(D)	1 691.2	880.3	408.6	402.2	(D)	(D)	-.2	
121	<b>Bituminous coal and lignite mining</b>													
Establishments-----number--	1 343	1 319	1 026	921	91	14	144	71	45	28	36	113	24	
Employees -----1,000--	47.9	47.6	24.2	(D)	4.4	(D)	20.1	12.0	3.8	4.3	(D)	(D)	.3	
Value added in mining ----- mil. dol.--	3 570.2	3 570.4	1 628.3	(D)	462.6	(D)	1 691.2	880.3	408.6	402.2	(D)	(D)	-.2	

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—  
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish- ments	Producing establishments										Nonpro- duc- ing estab- lish- ments	
			Mines only				Mines with preparation plants				Sep- arately operated prepara- tion plants	Undistri- buted <sup>1</sup>		
			Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods				
13	OIL AND GAS EXTRACTION													
	Establishments—number—	664	653	304	—	—	304	—	—	—	—	4	345	
	Employees ————1,000—	4.0	(D)	(D)	—	—	(D)	—	—	—	—	(D)	(D)	
	Value added in mining ———— mil. dol.—	475.1			—	—		—	—	—	—		11	
131	Crude petroleum and natural gas													
	Establishments—number—	318	307	304	—	—	304	—	—	—	—	—	3	
	Employees ————1,000—	2.4	(D)	(D)	—	—	(D)	—	—	—	—	.2	(D)	
	Value added in mining ———— mil. dol.—	297.3			—	—		—	—	—	—	—	11	
132	Natural gas liquids													
	Establishments—number—	4	4	—	—	—	—	—	—	—	—	4	—	
	Employees ————1,000—	(D)	(D)	—	—	—	—	—	—	—	—	(D)	—	
	Value added in mining ———— mil. dol.—			—	—	—	—	—	—	—	—	—	—	
138	Oil and gas field services													
	Establishments—number—	342	342	—	—	—	—	—	—	—	—	—	342	
	Employees ————1,000—	(D)	(D)	—	—	—	—	—	—	—	—	(D)	—	
	Value added in mining ———— mil. dol.—			—	—	—	—	—	—	—	—	—	—	
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments—number—	124	119	8	—	7	1	91	10	77	4	1	19	
	Employees ————1,000—	2.2	(D)	(D)	—	.1	(D)	1.9	.2	1.6	.1	(D)	5	
	Value added in mining ———— mil. dol.—	95.6			—	2.3		85.7	8.8	70.6	6.3		5.1	
141	Dimension stone													
	Establishments—number—	1	1	1	—	1	—	—	—	—	—	—	—	
	Employees ————1,000—	(Z)	(Z)	(Z)	—	(Z)	—	—	—	—	—	—	—	
	Value added in mining ———— mil. dol.—			—	—	—	—	—	—	—	—	—	—	
142	Crushed and broken stone, including riprap													
	Establishments—number—	91	87	—	—	—	—	81	10	69	2	1	5	
	Employees ————1,000—	1.9	(D)	(D)	—	—	—	(D)	.2	1.4	(D)	(D)	4	
	Value added in mining ———— mil. dol.—	78.2			—	—	—		8.8	62.5			—	
144	Sand and gravel													
	Establishments—number—	26	25	4	—	3	1	8	—	6	2	—	13	
	Employees ————1,000—	(D)	(D)	(D)	—	(D)	(D)	(D)	—	(D)	(D)	—	1	
	Value added in mining ———— mil. dol.—			—	—	—	—	—	—	—	—	—	(Z)	
145	Clay, ceramic, and refractory minerals													
	Establishments—number—	5	5	3	—	3	—	2	—	2	—	—	—	
	Employees ————1,000—	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	—	
	Value added in mining ———— mil. dol.—			—	—	—	—	—	—	—	—	—	—	
148	Nonmetallic minerals services													
	Establishments—number—	1	1	—	—	—	—	—	—	—	—	1	—	
	Employees ————1,000—	(D)	(D)	—	—	—	—	—	—	—	—	(D)	—	
	Value added in mining ———— mil. dol.—			—	—	—	—	—	—	—	—	—	—	

<sup>1</sup>Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

**Table 4a. Summary Statistics for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number-----	2 139	Cost of supplies ----- mil. dol.-----	3 831.2
With 0 to 19 employees ----- do-----	1 609	Supplies used, minerals received, and purchased machinery installed ----- do-----	2 985.3
With 20 to 99 employees ----- do-----	427	Resales ----- do-----	96.0
With 100 employees or more ----- do-----	103	Purchased fuels consumed ----- do-----	151.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000-----	54.2	Quantity ----- mil. kWh-----	2 652.6
Payroll for year ----- mil. dol.-----	1 371.7	Cost ----- mil. dol.-----	101.3
Production, development, and exploration workers:		Electric energy generated less sold ----- mil. kWh-----	(D)
Average for year ----- 1,000-----	44.9	Contract work ----- mil. dol.-----	497.2
March ----- do-----	47.3	Cost of purchased communication services ----- do-----	5.2
May ----- do-----	46.4	Value of shipments and receipts ----- do-----	7 336.1
August ----- do-----	44.2	Value of resales ----- do-----	104.8
November ----- do-----	41.7	Capital expenditures during year (except land and mineral rights) ----- do-----	637.0
Hours ----- millions-----	87.9	New capital expenditures during year ----- do-----	476.0
January to March ----- do-----	24.3	Buildings and other structures, except land ----- do-----	53.9
April to June ----- do-----	22.8	Machinery and equipment ----- do-----	422.2
July to September ----- do-----	20.9	Used capital expenditures during year ----- do-----	83.7
October to December ----- do-----	19.8	Buildings and other structures, except land ----- do-----	1.4
Wages ----- mil. dol.-----	1 108.6	Machinery and equipment ----- do-----	82.3
Supplemental labor costs not included in payroll ----- do-----	500.2	Mineral exploration and development <sup>1</sup> ----- do-----	77.3
Legally required expenditures, including Social Security contributions ----- do-----	226.1	Rental payments during year ----- do-----	69.1
Payments for voluntary programs ----- do-----	274.2	Buildings and other structures, except land ----- do-----	11.6
Value added by mining ----- do-----	4 141.9	Machinery and equipment ----- do-----	57.5
		Expensed mineral exploration, development, land, and rights <sup>1, 2</sup> ----- do-----	153.4

<sup>1</sup>Excludes data for mining service industries and natural gas liquids industry where data were not collected.

<sup>2</sup>Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

**Table 4b. Inventories for the State: End of 1981 and 1982**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
<b>Total inventories<sup>1</sup></b> -----	<b>343.5</b>	<b>396.5</b>
Detail by method of valuation:		
Subject to LIFO costing <sup>2</sup> :		
LIFO reserve -----	11.2	12.9
LIFO value -----	3.1	3.6
Not subject to LIFO costing -----	8.1	9.3
Valuation method not reported <sup>3</sup> -----	185.5	218.7
Amount subject to LIFO reported without associated reserve and value <sup>4</sup> -----	143.1	163.5
	3.7	1.5

<sup>1</sup>Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

<sup>2</sup>Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

<sup>3</sup>Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

<sup>4</sup>Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)					
13	Kentucky -----	E1	2 139	530	54.2	1 371.7	44.9	87.9	1 108.6	4 141.9	3 831.2	7 336.1	637.0
	Adair County -----	-	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Oil and gas extraction -----	-	16	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Natural gas liquids -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Barren County -----	E6	9	1	.1	1.1	.1	.1	.9	4.2	4.1	7.3	.9
	Bell County -----	E1	58	16	2.0	54.4	1.8	4.0	49.4	228.2	118.9	328.4	18.9
	Bituminous coal and lignite mining -----	E1	53	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8
121	Bituminous coal and lignite mining -----	E1	53	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	96.2

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
	Kentucky—Con.													
	Boyd County	E1	32	8	.4	9.0	.3	.6	6.6	41.0	86.2	123.5	3.7	.3
12	Bituminous coal and lignite mining	E1	18	5	.3	6.4	.2	.4	5.0	35.6	(D)	106.4	(D)	(NA)
121	Bituminous coal and lignite mining	E1	18	5	.3	6.4	.2	.4	5.0	35.6	(D)	106.4	(D)	(NA)
13	Oil and gas extraction	E2	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
132	Natural gas liquids	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Breathitt County	E7	18	7	1.1	36.8	1.0	1.7	30.3	91.9	61.4	132.2	21.0	1.3
12	Bituminous coal and lignite mining	E7	11	7	1.1	36.5	.9	1.7	30.1	91.1	(D)	131.5	(D)	1.3
121	Bituminous coal and lignite mining	E7	11	7	1.1	36.5	.9	1.7	30.1	91.1	(D)	131.5	(D)	1.3
	Bullitt County	-	3	2	.1	1.7	.1	.1	1.3	5.4	(D)	7.6	(D)	(NA)
14	Nonmetallic minerals, except fuels	-	3	2	.1	1.7	.1	.1	1.3	5.4	(D)	7.6	(D)	(NA)
	Butler County	E5	14	5	.2	3.8	.2	.4	3.3	16.1	9.7	22.6	3.2	.1
12	Bituminous coal and lignite mining	E5	12	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
121	Bituminous coal and lignite mining	E5	12	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Campbell County	-	3	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Carter County	E4	23	3	.3	4.2	.2	.4	3.5	31.4	(D)	27.1	(D)	.2
12	Bituminous coal and lignite mining	E2	13	2	.2	3.2	.2	.3	2.6	25.5	(D)	18.8	(D)	.1
121	Bituminous coal and lignite mining	E2	13	2	.2	3.2	.2	.3	2.6	25.5	(D)	18.8	(D)	.1
13	Oil and gas extraction	E9	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
131	Crude petroleum and natural gas	E9	4	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Christian County	E9	12	2	.1	2.4	.1	.2	1.9	9.1	4.6	12.5	1.2	.1
13	Oil and gas extraction	E8	8	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
14	Nonmetallic minerals, except fuels	E9	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
142	Crushed and broken stone, including riprap	E9	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Clay County	E2	34	5	1.0	24.4	.9	1.8	20.8	90.0	57.8	131.1	16.6	.8
12	Bituminous coal and lignite mining	E1	27	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7
121	Bituminous coal and lignite mining	E1	27	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7
13	Oil and gas extraction	E3	7	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
131	Crude petroleum and natural gas	E3	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Clinton County	E8	24	2	.1	1.8	.1	.2	1.5	9.0	4.0	12.0	1.0	(NA)
13	Oil and gas extraction	E9	22	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
131	Crude petroleum and natural gas	E9	5	1	(Z)	.6	(Z)	.1	.5	5.2	(D)	7.2	(D)	(NA)
	Daviess County	E3	69	5	.9	20.6	.6	1.7	15.7	80.1	34.2	109.8	4.4	.5
12	Bituminous coal and lignite mining	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
121	Bituminous coal and lignite mining	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
13	Oil and gas extraction	E7	61	2	.3	4.6	.2	.5	3.4	34.9	14.6	46.6	2.8	.3
131	Crude petroleum and natural gas	E7	29	1	.1	2.0	.1	.2	1.2	27.6	(D)	37.5	(D)	.1
138	Oil and gas field services	E6	32	1	.2	2.6	.1	.3	2.2	7.3	(D)	9.1	(D)	.2
14	Nonmetallic minerals, except fuels	E3	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup> Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
12	Kentucky—Con. Elliott County-----	-	9	3	.1	2.6	.1	.2	2.3	9.5	(D)	12.8	(D)	.1	4.2
12	Bituminous coal and lignite mining-----	-	5	3	.1	2.6	.1	.2	2.3	9.4	(D)	12.6	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	-	5	3	.1	2.6	.1	.2	2.3	9.4	(D)	12.6	(D)	(NA)	(NA)
12	Estill County-----	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Fayette County-----	E8	56	14	1.1	22.8	.4	.6	6.3	27.3	12.9	37.4	2.8	.6	19.3
12	Bituminous coal and lignite mining-----	E7	32	11	.9	19.8	.2	.4	4.6	12.2	5.6	15.9	1.9	.5	10.6
121	Bituminous coal and lignite mining-----	E7	32	11	.9	19.8	.2	.4	4.6	12.2	5.6	15.9	1.9	.5	10.6
13	Oil and gas extraction-----	E9	19	1	.1	1.3	.1	.1	1.0	9.7	4.6	14.1	.2	(NA)	(NA)
131	Crude petroleum and natural gas-----	E9	8	-	(Z)	.4	(Z)	(Z)	.2	5.8	(D)	8.5	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	E6	5	2	.1	1.7	(Z)	.1	.7	5.3	2.7	7.4	.7	(NA)	(NA)
142	Crushed and broken stone, including riprap-----	E5	4	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Floyd County-----	E3	169	61	3.3	70.3	2.8	5.0	55.0	246.3	211.1	423.4	34.0	1.9	105.3
12	Bituminous coal and lignite mining-----	E4	150	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E4	150	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction-----	E1	18	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E2	12	3	.5	9.5	.2	.5	4.8	26.6	(D)	30.9	(D)	(NA)	(NA)
132	Natural gas liquids-----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Franklin County-----	E3	4	1	.1	3.0	.1	.2	2.9	7.6	3.4	10.6	.3	(NA)	(NA)
12	Bituminous coal and lignite mining-----	E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Harlan County-----	E3	84	34	4.1	103.8	3.5	6.6	86.0	214.9	206.6	376.1	45.3	4.3	178.6
12	Bituminous coal and lignite mining-----	E3	81	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E3	81	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Henderson County-----	E1	57	7	.6	15.3	.5	1.1	10.6	48.9	120.0	164.1	4.9	.3	15.0
12	Bituminous coal and lignite mining-----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction-----	E3	53	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E4	23	1	.1	1.7	.1	.1	1.0	22.3	6.2	27.7	.8	.1	4.3
138	Oil and gas field services-----	E1	30	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Hopkins County-----	E1	62	18	1.7	48.6	1.2	2.4	34.5	149.4	89.9	222.6	16.6	2.3	132.0
12	Bituminous coal and lignite mining-----	E1	45	17	1.6	47.7	1.2	2.3	33.8	145.4	88.7	217.7	16.4	2.3	129.9
121	Bituminous coal and lignite mining-----	E1	45	17	1.6	47.7	1.2	2.3	33.8	145.4	88.7	217.7	16.4	2.3	129.9
	Jefferson County-----	E4	28	6	.3	7.0	.2	.4	3.9	12.8	6.5	16.8	2.5	.4	14.2
12	Bituminous coal and lignite mining-----	E4	9	3	.2	4.2	.1	.2	2.1	6.8	2.6	8.1	1.3	(NA)	(NA)
121	Bituminous coal and lignite mining-----	E4	9	3	.2	4.2	.1	.2	2.1	6.8	2.6	8.1	1.3	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	11	3	.1	2.6	.1	.2	1.6	4.0	(D)	6.1	(D)	.3	11.0

See footnotes at end of table.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
	Kentucky—Con.														
	Johnson County -----	E5	66	11	.7	16.7	.5	.9	10.6	38.0	30.1	60.4	7.6	1.0	63.3
12	Bituminous coal and lignite mining -----	E5	40	10	.6	14.8	.4	.7	9.2	32.1	27.5	53.4	6.2	1.0	57.8
121	Bituminous coal and lignite mining -----	E5	40	10	.6	14.8	.4	.7	9.2	32.1	27.5	53.4	6.2	1.0	57.8
13	Oil and gas extraction -----	E6	26	1	.1	1.9	.1	.2	1.4	5.9	2.6	7.1	1.4	(NA)	(NA)
	Knott County -----	E1	58	13	1.4	27.8	1.2	1.8	22.3	69.8	46.3	106.3	9.8	1.2	54.5
12	Bituminous coal and lignite mining -----	E2	48	13	1.4	27.3	1.1	1.7	21.9	64.1	44.9	99.7	9.3	1.1	41.7
121	Bituminous coal and lignite mining -----	E2	48	13	1.4	27.3	1.1	1.7	21.9	64.1	44.9	99.7	9.3	1.1	41.7
13	Oil and gas extraction -----	-	10	-	(Z)	.5	(Z)	.1	.4	5.7	1.4	6.5	.5	.1	12.8
	Knox County -----	E2	35	3	.3	4.6	.2	.5	3.8	27.5	18.3	41.6	4.2	.4	23.6
12	Bituminous coal and lignite mining -----	E3	30	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E3	30	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E1	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
131	Crude petroleum and natural gas-----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Laurel County -----	E2	56	20	1.7	34.5	1.6	3.2	32.0	122.6	106.2	202.0	26.9	.3	14.1
12	Bituminous coal and lignite mining -----	E2	53	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
121	Bituminous coal and lignite mining -----	E2	53	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
14	Nonmetallic minerals, except fuels-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
142	Crushed and broken stone, including riprap -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Lawrence County -----	E8	19	1	.1	1.6	.1	.1	.9	11.7	6.0	14.2	3.5	.2	10.9
12	Bituminous coal and lignite mining -----	E9	8	-	(Z)	.7	(Z)	.1	.6	5.5	(D)	7.2	(D)	.1	9.6
121	Bituminous coal and lignite mining -----	E9	8	-	(Z)	.7	(Z)	.1	.6	5.5	(D)	7.2	(D)	.1	9.6
13	Oil and gas extraction -----	E7	11	1	(Z)	.9	(Z)	(Z)	.3	6.2	(D)	7.0	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E7	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Lee County -----	E8	16	1	.1	1.3	.1	.1	.9	7.4	3.8	9.4	1.8	.2	9.1
13	Oil and gas extraction -----	E8	13	-	(Z)	.8	(Z)	.1	.5	4.3	(D)	5.5	(D)	.2	7.1
	Leslie County -----	E2	21	8	.6	13.9	.6	1.0	11.7	39.7	35.7	61.0	14.5	.4	23.8
12	Bituminous coal and lignite mining -----	E2	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E2	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E3	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
131	Crude petroleum and natural gas-----	E3	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Letcher County -----	E2	88	18	2.5	53.4	2.1	4.3	45.6	107.0	91.9	173.5	25.3	2.6	121.3
12	Bituminous coal and lignite mining -----	E2	77	16	2.4	51.7	2.1	4.1	44.2	100.6	82.9	162.0	21.4	2.5	117.1
121	Bituminous coal and lignite mining -----	E2	77	16	2.4	51.7	2.1	4.1	44.2	100.6	82.9	162.0	21.4	2.5	117.1
13	Oil and gas extraction -----	E4	9	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E4	7	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	McCreary County -----	E1	14	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	3.8
12	Bituminous coal and lignite mining -----	E1	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	3.8
121	Bituminous coal and lignite mining -----	E1	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	3.8

See footnotes at end of table.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
E <sup>2</sup>															
13	Kentucky—Con. McLean County-----	-	24	1	.1	1.8	.1	1.4	5.6	3.0	7.2	1.4	.1	11.1	
13	Oil and gas extraction -----	-	21	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
12	Magoffin County-----	E1	37	9	.4	11.0	.4	.8	9.4	47.7	41.5	75.1	14.1	.3	24.7
12	Bituminous coal and lignite mining -----	-	18	7	.4	9.1	.3	.7	7.7	41.7	(D)	67.2	(D)	.3	21.5
121	Bituminous coal and lignite mining -----	-	18	7	.4	9.1	.3	.7	7.7	41.7	(D)	67.2	(D)	.3	21.5
13	Oil and gas extraction -----	E7	19	2	.1	1.8	.1	.1	1.6	6.0	(D)	7.9	(D)	(NA)	(NA)
12	Martin County-----	-	37	19	3.4	115.2	2.9	5.8	94.1	354.4	278.8	599.2	33.9	2.1	130.5
12	Bituminous coal and lignite mining -----	-	27	18	3.4	114.2	2.9	5.7	93.3	342.5	276.9	586.1	33.3	2.1	129.4
121	Bituminous coal and lignite mining -----	-	27	18	3.4	114.2	2.9	5.7	93.3	342.5	276.9	586.1	33.3	2.1	129.4
13	Oil and gas extraction -----	-	9	1	(Z)	1.0	(Z)	.1	.7	11.8	1.9	13.1	.6	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Mason County-----	-	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Muhlenberg County-----	-	54	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	200.9
12	Bituminous coal and lignite mining -----	-	25	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	198.3
121	Bituminous coal and lignite mining -----	-	25	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	198.3
13	Oil and gas extraction -----	E3	27	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	E2	19	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Nelson County-----	-	5	4	.2	4.2	.2	.4	3.8	17.3	(D)	21.3	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Ohio County-----	-	37	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	128.4
12	Bituminous coal and lignite mining -----	-	18	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	126.2
121	Bituminous coal and lignite mining -----	-	18	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	126.2
12	Perry County-----	E1	63	24	2.7	71.5	2.3	5.1	64.6	210.0	190.3	350.9	49.3	2.9	136.2
12	Bituminous coal and lignite mining -----	E1	55	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	55	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E3	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E3	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Pike County-----	E2	366	98	9.6	245.3	8.0	14.9	201.3	708.3	552.2	1 133.4	127.1	8.0	384.2
12	Bituminous coal and lignite mining -----	E2	323	92	9.1	235.1	7.7	14.3	195.7	630.3	535.6	1 048.4	117.5	7.8	367.1
121	Bituminous coal and lignite mining -----	E2	323	92	9.1	235.1	7.7	14.3	195.7	630.3	535.6	1 048.4	117.5	7.8	367.1
13	Oil and gas extraction -----	E1	38	5	.4	8.9	.2	.5	4.7	72.0	13.6	76.5	9.1	.2	12.1
131	Crude petroleum and natural gas-----	E1	26	3	.3	6.2	.1	.3	2.6	65.5	10.3	67.5	8.3	.1	11.0
138	Oil and gas field services-----	E4	12	2	.1	2.8	.1	.2	2.2	6.5	3.3	9.1	.7	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	E9	5	1	.1	1.2	.1	.1	.9	6.0	3.0	8.4	.6	.1	5.0
142	Crushed and broken stone, including riprap -----	E9	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	Kentucky—Con. Powell County -----	E6	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E9	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E9	4	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pulaski County -----	E1	10	2	.3	6.1	.3	.7	5.4	29.0	12.7	36.9	4.8	.2
12	Bituminous coal and lignite mining -----	E1	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Taylor County -----	E9	9	1	.1	.8	.1	.1	.5	6.9	3.4	10.1	.2	(NA)
13	Oil and gas extraction -----	E9	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E9	6	1	.1	.6	(Z)	.1	.3	6.3	2.9	9.3	-	(NA)
	Union County -----	-	33	11	4.0	122.2	3.4	6.6	102.0	246.9	162.4	393.7	15.6	2.5
12	Bituminous coal and lignite mining -----	-	13	11	3.9	121.3	3.4	6.5	101.3	242.0	158.9	385.5	15.4	2.4
121	Bituminous coal and lignite mining -----	-	13	11	3.9	121.3	3.4	6.5	101.3	242.0	158.9	385.5	15.4	2.4
13	Oil and gas extraction -----	E1	20	-	(Z)	.9	(Z)	.1	.7	4.9	3.5	8.2	.2	.1
131	Crude petroleum and natural gas-----	-	11	-	(Z)	.7	(Z)	(Z)	.5	4.2	(D)	7.4	(D)	5.8
	Warren County -----	E6	17	3	.2	2.4	.1	.2	1.7	24.6	15.6	37.0	3.1	(NA)
12	Bituminous coal and lignite mining -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E9	12	1	.1	1.1	(Z)	.1	.7	17.7	(D)	23.3	(D)	(NA)
131	Crude petroleum and natural gas-----	E9	5	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Webster County -----	E1	25	5	.8	21.6	.7	1.4	17.6	85.5	27.3	104.0	8.7	.7
12	Bituminous coal and lignite mining -----	E1	9	4	.7	20.8	.6	1.3	17.0	78.4	(D)	96.6	(D)	.7
121	Bituminous coal and lignite mining -----	E1	9	4	.7	20.8	.6	1.3	17.0	78.4	(D)	96.6	(D)	.7
13	Oil and gas extraction -----	E2	16	1	(Z)	.8	(Z)	.1	.6	7.1	(D)	7.5	(D)	(Z)
	Whitley County -----	E1	51	15	1.1	19.6	.9	1.7	15.5	84.1	139.2	198.4	24.8	.7
12	Bituminous coal and lignite mining -----	E1	49	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	49	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

<sup>1</sup>County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.

<sup>2</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>3</sup>Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
<b>Kentucky -----</b>	<b>2 139</b>	<b>8</b>	-	<b>1 343</b>	<b>664</b>	<b>124</b>	<b>Kentucky—Con.</b>							
0 to 4 employees-----	872	5	-	361	485	21	<b>Christian County -----</b>	<b>12</b>	-	-	<b>1</b>	<b>8</b>	<b>3</b>	
5 to 9 employees-----	340	3	-	223	85	29	0 to 19 employees-----	10	-	-	-	8	2	
10 to 19 employees-----	397	-	-	314	50	33	20 to 99 employees-----	2	-	-	1	-	1	
20 to 49 employees-----	336	-	-	269	31	36	<b>Clark County -----</b>	<b>5</b>	-	-	<b>2</b>	<b>2</b>	<b>1</b>	
50 to 99 employees-----	91	-	-	79	9	3	0 to 19 employees-----	5	-	-	2	2	1	
100 to 249 employees-----	60	-	-	54	4	2	20 to 99 employees-----	-	-	-	-	-	-	
250 to 499 employees-----	32	-	-	32	-	-	<b>Clay County -----</b>	<b>34</b>	-	-	<b>27</b>	<b>7</b>	<b>-</b>	
500 to 999 employees-----	10	-	-	10	-	-	0 to 19 employees-----	29	-	-	23	6	-	
1,000 to 2,499 employees-----	1	-	-	1	-	-	20 to 99 employees-----	4	-	-	3	1	-	
<b>Adair County -----</b>	<b>17</b>	-	-	-	<b>16</b>	<b>1</b>	250 employees or more-----	1	-	-	1	-	-	
0 to 19 employees-----	16	-	-	-	15	1	<b>Clinton County -----</b>	<b>24</b>	-	-	-	<b>22</b>	<b>2</b>	
20 to 99 employees-----	1	-	-	-	1	-	0 to 19 employees-----	22	-	-	-	21	1	
<b>Allen County -----</b>	<b>9</b>	-	-	-	<b>1</b>	<b>7</b>	20 to 99 employees-----	2	-	-	-	1	1	
0 to 19 employees-----	9	-	-	1	-	1	<b>Crittenden County -----</b>	<b>6</b>	-	-	1	3	2	
<b>Anderson County -----</b>	<b>1</b>	-	-	-	-	-	0 to 19 employees-----	4	-	-	1	3	-	
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees-----	2	-	-	-	-	2	
<b>Barren County -----</b>	<b>9</b>	<b>1</b>	-	-	<b>1</b>	<b>6</b>	<b>Cumberland County -----</b>	<b>14</b>	<b>1</b>	-	-	<b>13</b>	-	
0 to 19 employees-----	8	1	-	1	-	6	0 to 19 employees-----	14	1	-	-	13	-	
20 to 99 employees-----	1	-	-	-	-	1	<b>Daviess County -----</b>	<b>69</b>	-	-	6	<b>61</b>	<b>2</b>	
<b>Bath County -----</b>	<b>2</b>	-	-	-	<b>1</b>	<b>1</b>	0 to 19 employees-----	64	-	-	4	59	1	
0 to 19 employees-----	2	-	-	-	1	1	20 to 99 employees-----	3	-	-	-	2	1	
<b>Bell County -----</b>	<b>58</b>	-	-	53	<b>4</b>	<b>1</b>	100 to 249 employees-----	1	-	-	1	-	-	
0 to 19 employees-----	42	-	-	37	4	1	250 employees or more-----	1	-	-	1	-	-	
20 to 99 employees-----	10	-	-	10	-	-	<b>Edmonson County -----</b>	<b>1</b>	-	-	-	-	1	
100 to 249 employees-----	4	-	-	4	-	-	0 to 19 employees-----	1	-	-	-	-	-	
250 employees or more-----	2	-	-	2	-	-	<b>Elliott County -----</b>	<b>9</b>	<b>1</b>	-	5	3	-	
<b>Boone County -----</b>	<b>1</b>	-	-	-	-	-	0 to 19 employees-----	6	1	-	2	3	-	
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees-----	3	-	-	3	-	-	
<b>Bourbon County -----</b>	<b>2</b>	-	-	-	-	-	<b>Estill County -----</b>	<b>8</b>	-	-	1	7	-	
0 to 19 employees-----	2	-	-	-	-	-	0 to 19 employees-----	6	-	-	-	6	-	
<b>Boyd County -----</b>	<b>32</b>	-	-	<b>18</b>	<b>13</b>	<b>1</b>	20 to 99 employees-----	1	-	-	-	1	-	
0 to 19 employees-----	24	-	-	13	10	1	100 to 249 employees-----	1	-	-	1	-	-	
20 to 99 employees-----	8	-	-	5	3	-	<b>Fayette County -----</b>	<b>56</b>	-	-	32	<b>19</b>	<b>5</b>	
<b>Boyle County -----</b>	<b>2</b>	-	-	-	-	-	0 to 19 employees-----	42	-	-	21	18	3	
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees-----	12	-	-	9	1	2	
20 to 99 employees-----	1	-	-	-	-	-	100 to 249 employees-----	1	-	-	1	-	-	
250 employees or more-----	1	-	-	1	-	-	250 employees or more-----	1	-	-	1	-	-	
<b>Breathitt County -----</b>	<b>18</b>	-	-	<b>11</b>	<b>7</b>	<b>-</b>	<b>Fleming County -----</b>	<b>1</b>	-	-	-	-	1	
0 to 19 employees-----	11	-	-	4	7	-	0 to 19 employees-----	1	-	-	-	-	1	
20 to 99 employees-----	6	-	-	6	-	-	<b>Floyd County -----</b>	<b>169</b>	-	-	<b>150</b>	<b>18</b>	<b>1</b>	
250 employees or more-----	1	-	-	1	-	-	0 to 19 employees-----	108	-	-	93	14	1	
<b>Breckinridge County -----</b>	<b>5</b>	-	-	-	<b>2</b>	<b>3</b>	20 to 99 employees-----	58	-	-	56	2	-	
0 to 19 employees-----	4	-	-	-	2	2	100 to 249 employees-----	3	-	-	1	2	-	
20 to 99 employees-----	1	-	-	-	-	1	<b>Franklin County -----</b>	<b>4</b>	-	-	3	-	1	
<b>Bullitt County -----</b>	<b>3</b>	-	-	-	-	-	0 to 19 employees-----	3	-	-	2	-	1	
0 to 19 employees-----	1	-	-	-	-	-	100 to 249 employees-----	1	-	-	1	-	-	
20 to 99 employees-----	2	-	-	-	-	-	<b>Fulton County -----</b>	<b>1</b>	-	-	-	-	-	
<b>Butler County -----</b>	<b>14</b>	-	-	<b>12</b>	<b>1</b>	<b>1</b>	0 to 19 employees-----	1	-	-	-	-	-	
0 to 19 employees-----	9	-	-	7	1	1	<b>Graves County -----</b>	<b>3</b>	-	-	-	-	3	
20 to 99 employees-----	5	-	-	5	-	-	0 to 19 employees-----	1	-	-	1	4	1	
<b>Caldwell County -----</b>	<b>5</b>	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	20 to 99 employees-----	2	-	-	-	-	2	
0 to 19 employees-----	4	1	-	1	2	1	<b>Grayson County -----</b>	<b>6</b>	-	-	1	4	-	
20 to 99 employees-----	1	-	-	-	-	-	0 to 19 employees-----	5	-	-	1	4	-	
<b>Calloway County -----</b>	<b>1</b>	-	-	-	-	-	20 to 99 employees-----	1	-	-	-	-	1	
0 to 19 employees-----	1	-	-	-	-	-	<b>Green County -----</b>	<b>5</b>	-	-	-	5	-	
<b>Campbell County -----</b>	<b>3</b>	-	-	<b>1</b>	<b>1</b>	<b>1</b>	0 to 19 employees-----	5	-	-	-	-	-	
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees-----	5	-	-	-	5	-	
20 to 99 employees-----	2	-	-	1	1	-	<b>Greenup County -----</b>	<b>5</b>	-	-	2	3	-	
<b>Carroll County -----</b>	<b>1</b>	-	-	-	-	-	0 to 19 employees-----	4	-	-	2	2	-	
0 to 19 employees-----	1	-	-	-	-	-	100 to 249 employees-----	1	-	-	-	1	-	
<b>Carter County -----</b>	<b>23</b>	-	-	<b>13</b>	<b>6</b>	<b>4</b>	<b>Hancock County -----</b>	<b>6</b>	-	-	-	<b>6</b>	-	
0 to 19 employees-----	20	-	-	11	6	3	0 to 19 employees-----	6	-	-	-	6	-	
20 to 99 employees-----	2	-	-	1	-	1	100 to 249 employees-----	1	-	-	-	6	-	
100 to 249 employees-----	1	-	-	1	-	-	<b>Hardin County -----</b>	<b>7</b>	-	-	-	1	6	
<b>Casey County -----</b>	<b>1</b>	-	-	-	-	-	0 to 19 employees-----	5	-	-	-	1	4	
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees-----	2	-	-	-	2	2	

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Kentucky—Con.							Kentucky—Con.							
Harrison County	84	-	-	81	2	1	Livingston County—Con.							
0 to 19 employees	50	-	-	48	2	-	100 to 249 employees	1	-	-	-	-	-	1
20 to 99 employees	27	-	-	26	-	1	20 to 99 employees	1	-	-	-	-	-	1
100 to 249 employees	2	-	-	2	-	-	0 to 19 employees	5	-	-	-	-	4	2
250 employees or more	5	-	-	5	-	-	20 to 99 employees	1	-	-	-	-	-	1
Harrison County	1	-	-	-	-	1	Logan County	6	-	-	-	-	-	2
0 to 19 employees	1	-	-	-	-	1	0 to 19 employees	5	-	-	-	-	4	1
Hart County	5	-	-	1	4	-	20 to 99 employees	1	-	-	-	-	-	1
0 to 19 employees	4	-	-	1	4	-	100 to 249 employees	1	-	-	-	-	1	-
Henderson County	57	1	-	3	53	-	Lyon County	1	-	-	-	-	-	-
0 to 19 employees	50	1	-	1	48	-	0 to 19 employees	1	-	-	-	-	10	4
20 to 99 employees	6	-	-	1	5	-	20 to 99 employees	2	-	-	-	6	4	-
100 to 249 employees	1	-	-	1	-	-	100 to 249 employees	2	-	-	-	2	-	-
Henry County	1	-	-	-	-	1	McCreary County	14	-	-	-	-	10	4
0 to 19 employees	1	-	-	-	-	1	0 to 19 employees	10	-	-	-	-	6	4
Hickman County	2	-	-	-	1	1	20 to 99 employees	2	-	-	-	-	2	-
0 to 19 employees	2	-	-	-	1	1	100 to 249 employees	2	-	-	-	-	-	-
Hopkins County	62	-	-	45	17	-	Madison County	5	-	-	-	-	3	1
0 to 19 employees	44	-	-	28	16	-	0 to 19 employees	4	-	-	-	-	3	1
20 to 99 employees	13	-	-	12	1	-	20 to 99 employees	1	-	-	-	-	-	1
100 to 249 employees	5	-	-	5	-	-	100 to 249 employees	1	-	-	-	-	-	-
Jackson County	2	-	-	-	1	1	Magoffin County	37	-	-	-	-	18	19
0 to 19 employees	1	-	-	-	1	1	0 to 19 employees	28	-	-	-	-	11	17
20 to 99 employees	1	-	-	-	1	1	20 to 99 employees	8	-	-	-	-	6	2
Jefferson County	28	-	-	9	8	11	100 to 249 employees	1	-	-	-	-	1	-
0 to 19 employees	22	-	-	6	8	8	Marion County	1	-	-	-	-	-	1
20 to 99 employees	6	-	-	3	-	3	0 to 19 employees	1	-	-	-	-	-	1
Jessamine County	2	-	-	-	-	2	Marshall County	2	-	-	-	-	-	2
0 to 19 employees	1	-	-	-	-	1	0 to 19 employees	2	-	-	-	-	2	-
20 to 99 employees	1	-	-	-	-	1	100 to 249 employees	1	-	-	-	-	-	-
Johnson County	66	-	-	40	26	-	Martin County	37	-	-	-	-	27	9
0 to 19 employees	55	-	-	30	25	-	0 to 19 employees	18	-	-	-	-	9	8
20 to 99 employees	11	-	-	10	1	-	20 to 99 employees	13	-	-	-	-	12	1
Kenton County	4	-	-	4	-	-	100 to 249 employees	1	-	-	-	-	1	-
0 to 19 employees	3	-	-	3	-	-	250 employees or more	5	-	-	-	-	5	-
20 to 99 employees	1	-	-	1	-	-	Mason County	5	1	-	-	1	1	2
Knott County	58	-	-	48	10	-	0 to 19 employees	4	1	-	-	1	1	1
0 to 19 employees	45	-	-	35	10	-	20 to 99 employees	1	-	-	-	-	-	1
20 to 99 employees	12	-	-	12	-	-	100 to 249 employees	1	-	-	-	-	-	-
250 employees or more	1	-	-	1	-	-	250 employees or more	5	-	-	-	-	3	-
Knox County	35	1	-	30	4	-	Meade County	3	-	-	-	-	-	2
0 to 19 employees	32	1	-	28	3	-	0 to 19 employees	2	-	-	-	-	-	1
20 to 99 employees	3	-	-	2	1	-	20 to 99 employees	1	-	-	-	-	-	-
Laurel County	56	1	-	53	1	1	Menifee County	1	-	-	-	1	-	-
0 to 19 employees	36	1	-	34	1	1	20 to 99 employees	1	-	-	-	1	-	-
20 to 99 employees	16	-	-	16	-	1	Mercer County	2	-	-	-	-	1	1
100 to 249 employees	2	-	-	1	-	1	0 to 19 employees	2	-	-	-	-	1	1
250 employees or more	2	-	-	2	-	-	100 to 249 employees	1	-	-	-	-	-	-
Lawrence County	19	-	-	8	11	-	Metcalfe County	4	-	-	-	-	3	1
0 to 19 employees	18	-	-	8	10	-	0 to 19 employees	4	-	-	-	-	3	1
20 to 99 employees	1	-	-	-	1	-	20 to 99 employees	4	-	-	-	-	3	1
Lee County	16	-	-	2	13	1	Monroe County	2	-	-	-	-	1	1
0 to 19 employees	15	-	-	1	13	1	0 to 19 employees	2	-	-	-	-	1	1
20 to 99 employees	1	-	-	1	-	1	100 to 249 employees	2	-	-	-	-	1	1
Leslie County	21	-	-	17	4	-	Montgomery County	2	-	-	-	-	2	-
0 to 19 employees	13	-	-	11	2	-	0 to 19 employees	2	-	-	-	-	2	-
20 to 99 employees	6	-	-	4	2	-	20 to 99 employees	1	-	-	-	-	2	-
100 to 249 employees	2	-	-	2	-	-	Morgan County	6	-	-	-	3	3	-
Letcher County	88	-	-	77	9	2	0 to 19 employees	5	-	-	-	2	3	-
0 to 19 employees	70	-	-	61	8	1	20 to 99 employees	1	-	-	-	1	-	-
20 to 99 employees	14	-	-	12	1	1	Muhlenberg County	54	-	-	-	25	27	2
100 to 249 employees	2	-	-	2	-	-	0 to 19 employees	37	-	-	-	10	26	-
250 employees or more	2	-	-	2	-	-	20 to 99 employees	10	-	-	-	8	1	-
Livingston County	3	-	-	2	-	1	100 to 249 employees	3	-	-	-	3	-	-
0 to 19 employees	2	-	-	2	-	-	250 employees or more	4	-	-	-	4	-	-

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Kentucky—Con.							Kentucky—Con.							
Nelson County -----	5	-	-	4	-	1	Scott County -----	1	-	-	-	-	-	1
0 to 19 employees-----	1	-	-	1	-	-	20 to 99 employees -----	1	-	-	-	-	-	1
20 to 99 employees -----	4	-	-	3	-	1	Simpson County -----	3	-	-	-	-	2	1
Ohio County -----	37	-	-	18	17	2	0 to 19 employees-----	3	-	-	-	-	2	1
0 to 19 employees-----	28	-	-	10	17	1	Spencer County -----	1	-	-	-	-	1	
20 to 99 employees -----	4	-	-	3	-	1	0 to 19 employees-----	1	-	-	-	-	1	
100 to 249 employees -----	4	-	-	4	-	-	Taylor County -----	9	-	-	-	-	8	1
250 employees or more -----	1	-	-	1	-	-	0 to 19 employees-----	8	-	-	-	-	7	1
Oldham County -----	4	-	-	1	-	1	20 to 99 employees -----	1	-	-	-	-	1	
0 to 19 employees-----	3	-	-	1	-	2	Todd County -----	3	-	-	-	-	3	-
20 to 99 employees -----	1	-	-	-	-	1	Trigg County -----	1	-	-	-	-	1	
Owen County -----	1	-	-	-	-	1	0 to 19 employees-----	1	-	-	-	-	1	
0 to 19 employees-----	1	-	-	-	-	1	Trimble County -----	1	-	-	-	-	1	
Owsley County -----	10	-	-	6	4	-	0 to 19 employees-----	1	-	-	-	-	1	
0 to 19 employees-----	9	-	-	5	4	-	Warren County -----	17	-	-	1	12	4	
20 to 99 employees -----	1	-	-	1	-	-	0 to 19 employees-----	14	-	-	-	11	3	
Pendleton County -----	1	-	-	-	-	1	20 to 99 employees -----	3	-	-	1	1	1	
20 to 99 employees -----	1	-	-	-	-	1	Washington County -----	3	-	-	-	1	2	
Perry County -----	63	-	-	55	8	-	0 to 19 employees-----	3	-	-	-	1	2	
0 to 19 employees-----	39	-	-	33	6	-	20 to 99 employees -----	1	-	-	-	1	2	
20 to 99 employees -----	15	-	-	14	1	-	100 to 249 employees -----	1	-	-	-	1	-	
100 to 249 employees -----	6	-	-	5	1	-	250 employees or more -----	6	-	-	-	6	-	
250 employees or more -----	3	-	-	3	-	-	Warren County -----	17	-	-	1	12	4	
Pike County -----	366	-	-	323	38	5	0 to 19 employees-----	14	-	-	-	11	3	
0 to 19 employees-----	268	-	-	231	33	4	20 to 99 employees -----	3	-	-	1	1	1	
20 to 99 employees -----	81	-	-	75	5	1	Washington County -----	3	-	-	-	1	2	
100 to 249 employees -----	10	-	-	10	-	1	0 to 19 employees-----	3	-	-	-	1	2	
250 employees or more -----	7	-	-	7	-	-	Wayne County -----	3	-	-	-	2	1	
Powell County -----	8	-	-	2	6	-	0 to 19 employees-----	2	-	-	-	2	-	
0 to 19 employees-----	7	-	-	1	6	-	20 to 99 employees -----	1	-	-	-	-	1	
20 to 99 employees -----	1	-	-	1	-	-	Webster County -----	25	-	-	9	16	-	
Pulaski County -----	10	-	-	6	2	2	0 to 19 employees-----	20	-	-	5	15	-	
0 to 19 employees-----	8	-	-	5	1	2	20 to 99 employees -----	3	-	-	2	1	-	
20 to 99 employees -----	1	-	-	-	1	2	100 to 249 employees -----	1	-	-	1	-	-	
100 to 249 employees -----	1	-	-	1	-	2	250 employees or more -----	1	-	-	1	-	-	
Rockcastle County -----	3	-	-	1	1	1	Whitley County -----	51	-	-	49	2	-	
0 to 19 employees-----	3	-	-	1	1	1	0 to 19 employees-----	36	-	-	34	2	-	
Rowan County -----	5	-	-	1	1	1	20 to 99 employees -----	13	-	-	13	-	-	
0 to 19 employees-----	5	-	-	1	1	1	100 to 249 employees -----	2	-	-	2	-	-	
Russell County -----	3	-	-	-	3	-	Wolfe County -----	3	-	-	-	2	1	
0 to 19 employees-----	3	-	-	-	3	-	0 to 19 employees-----	3	-	-	-	2	1	

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## SUMMARY OF FINDINGS

The total value of shipments and receipts for the 1,374 establishments classified in mineral industries in Mississippi was \$2,157 million in 1982, compared to \$619 million in 1977. Value added by mining amounted to \$1,766 million in 1982, and payroll in mining amounted to \$213 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making

comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Mississippi was 9.6 thousand in 1982, an increase of 60 percent over 1977. The oil and gas extraction industry led all other mineral industries in the State, accounting for 90 percent of the State's mineral industries employment.

**Table 1. Historical Statistics for the State: 1982 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 <sup>1</sup>	21 374	2115	9.6	213.2	7.2	16.0	152.9	1 765.7	933.1	2 156.6	542.2
1977 <sup>1</sup>	449	83	6.0	86.8	4.8	10.2	65.6	507.2	309.6	618.8	198.0
1972 <sup>1</sup>	350	85	5.6	47.2	4.5	9.0	34.5	232.1	157.8	313.9	76.1
1967 <sup>1</sup>	307	69	4.3	30.0	3.4	7.3	20.4	189.6	90.7	230.9	49.4
1963	369	70	5.3	29.8	4.0	8.1	19.9	200.5	105.0	266.4	39.1
1958	255	64	5.3	26.6	4.1	8.8	19.0	135.3	85.1	188.0	32.5
Excluding oil and gas extraction industries:											
1982 <sup>1</sup>	66	18	1.0	12.9	.7	1.4	9.4	30.9	27.5	54.2	4.2
1977 <sup>1</sup> <sup>3</sup>	80	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1972 <sup>1</sup> <sup>3</sup>	75	19	1.3	8.3	1.0	2.2	6.6	20.1	13.2	30.4	3.0
1967 <sup>1</sup> <sup>3</sup>	70	14	.9	4.6	.8	1.7	3.5	12.1	7.8	18.1	1.8
1963 <sup>3</sup>	87	16	1.0	3.5	.8	1.8	3.0	9.4	5.1	13.2	1.2
1958 <sup>3</sup>	71	14	.9	3.0	.8	1.7	2.4	9.6	4.2	12.6	1.2

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

<sup>1</sup>Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

<sup>2</sup>Not comparable to prior years. See Introduction for further explanation.

<sup>3</sup>Includes data for mining operations at manufacturing locations.

**Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982								1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
E1	All mineral industries ----	1 374	115	9.6	213.2	7.2	16.0	152.9	1 765.7	933.1	2 156.6	542.2	
13	Oil and gas extraction -----	E1	1 308	97	8.6	200.3	6.4	14.6	143.5	1 734.8	905.6	2 102.4	538.0
1311	Crude petroleum and natural gas-----	E1	511	29	2.0	57.2	1.1	2.3	27.7	1 309.0	550.1	1 516.9	342.2
138	Oil and gas field services -----	E2	793	68	6.6	142.0	5.3	12.2	114.8	415.8	(D)	539.7	(D)
1381	Drilling oil and gas wells -----	E1	234	22	2.3	63.2	2.2	5.3	58.8	186.9	212.8	244.2	155.5
1382	Oil and gas field exploration services -----	E2	169	6	.8	14.6	.6	1.4	10.1	45.1	(D)	55.2	(D)
1389	Oil and gas field services, n.e.c. -----	E3	390	40	3.4	64.2	2.6	5.5	46.0	183.8	90.2	240.3	33.6
14	Nonmetallic minerals, except fuels -----	E2	64	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
144	Sand and gravel -----	E3	50	14	.7	8.8	.5	1.0	6.6	19.4	17.1	33.6	2.9
1442	Construction sand and gravel -----	E3	48	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
145	Clay, ceramic, and refractory minerals -----	-	7	4	.2	2.9	.2	.4	2.1	8.7	9.6	17.2	1.1
													.3
													8.7

<sup>1</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

**Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers			Cost of supplies used, purchased machinery installed, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)	(D)		
Nonmetallic mineral mines included in manufactures -----	2	(D)	(D)	(D)	(X)	

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab-lishments	Producing establishments										Nonproducing estab-lishments <sup>1</sup>	
			Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed <sup>1</sup>		
			Total	Total	Under-ground mines	Open pit mines	Combina-tion methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combina-tion and other methods			
	<b>ALL MINERAL INDUSTRIES</b>													
	Establishments..... number.....	1 374	1 345	482	-	5	477	25	-	22	3	5	833	
	Employees ..... 1,000.....	9.6	9.5	(D)	(D)	(D)	1.8	(D)	(D)	(D)	(D)	(D)	(D)	
	Value added in mining ..... mil. dol. ....	1 765.7	1 761.8				1 305.1						29.1	
		5.9											5.9	
10	<b>METAL MINING</b>													
	Establishments..... number.....	1	1	-	-	-	-	-	-	-	-	-	1	
	Employees ..... 1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	
	Value added in mining ..... mil. dol. ....													
104	<b>Gold and silver ores</b>													
	Establishments..... number.....	1	1	-	-	-	-	-	-	-	-	-	1	
	Employees ..... 1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	
	Value added in mining ..... mil. dol. ....													
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>													
	Establishments..... number.....	1	1	-	-	-	-	-	-	-	-	-	1	
	Employees ..... 1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	
	Value added in mining ..... mil. dol. ....													
121	<b>Bituminous coal and lignite mining</b>													
	Establishments..... number.....	1	1	-	-	-	-	-	-	-	-	-	1	
	Employees ..... 1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	
	Value added in mining ..... mil. dol. ....													
13	<b>OIL AND GAS EXTRACTION</b>													
	Establishments..... number.....	1 308	1 280	477	-	-	477	-	-	-	-	4	799	
	Employees ..... 1,000.....	8.6	8.6	1.8	-	-	1.8	-	-	-	-	(Z)	6.7	
	Value added in mining ..... mil. dol. ....	1 734.8	1 730.9	1 305.1	-	-	1 305.1	-	-	-	-	10.0	415.8	
		2.9											3.9	
131	<b>Crude petroleum and natural gas</b>													
	Establishments..... number.....	511	483	477	-	-	477	-	-	-	-	-	6	
	Employees ..... 1,000.....	2.0	2.0	1.8	-	-	1.8	-	-	-	-	-	.2	
	Value added in mining ..... mil. dol. ....	1 309.0	1 305.1	1 305.1	-	-	1 305.1	-	-	-	-	-	3.9	
		28												
132	<b>Natural gas liquids</b>													
	Establishments..... number.....	4	4	-	-	-	-	-	-	-	-	4	-	
	Employees ..... 1,000.....	(Z)	(Z)	-	-	-	-	-	-	-	-	(Z)	-	
	Value added in mining ..... mil. dol. ....	10.0	10.0	-	-	-	-	-	-	-	-	10.0	-	
		-											-	
138	<b>Oil and gas field services</b>													
	Establishments..... number.....	793	793	-	-	-	-	-	-	-	-	-	793	
	Employees ..... 1,000.....	6.6	6.6	-	-	-	-	-	-	-	-	-	6.6	
	Value added in mining ..... mil. dol. ....	415.8	415.8	-	-	-	-	-	-	-	-	-	415.8	

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—  
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish-ments	Producing establishments										Nonproducing estab-lishments
				Mines only				Mines with preparation plants				Sepa-rately operated prepara-tion plants	Undistrib-uted <sup>1</sup>
				Total	Under-ground mines	Open pit mines	Combina-tion methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combina-tion and other methods		
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>												
	Establishments—number—	64	63	5	-	5	-	25	-	22	3	1	32
	Employees -----1,000—	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)	(D)
	Value added in mining ----- mil. dol.—												1
141	<b>Dimension stone</b>												
	Establishments—number—	1	1	1	-	1	-	-	-	-	-	-	-
	Employees -----1,000—	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	-
	Value added in mining ----- mil. dol.—												
142	<b>Crushed and broken stone, including riprap</b>												
	Establishments—number—	2	2	-	-	-	-	2	-	2	-	-	-
	Employees -----1,000—	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-
	Value added in mining ----- mil. dol.—												
144	<b>Sand and gravel</b>												
	Establishments—number—	50	49	2	-	2	-	17	-	14	3	1	29
	Employees -----1,000—	.7	.7	(D)	-	(D)	-	.3	-	(D)	(D)	(D)	3
	Value added in mining ----- mil. dol.—	19.4	19.4	-	-	(D)	-	6.8	-	(D)	(D)	(D)	9.8
145	<b>Clay, ceramic, and refractory minerals</b>												
	Establishments—number—	7	7	2	-	2	-	5	-	5	-	-	-
	Employees -----1,000—	.2	.2	(D)	-	(D)	-	(D)	-	(D)	-	-	-
	Value added in mining ----- mil. dol.—	8.7	8.7	-	-	(D)	-	-	-	(D)	-	-	-
148	<b>Nonmetallic minerals services</b>												
	Establishments—number—	3	3	-	-	-	-	-	-	-	-	-	3
	Employees -----1,000—	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining ----- mil. dol.—												
149	<b>Miscellaneous nonmetallic minerals</b>												
	Establishments—number—	1	1	-	-	-	-	1	-	1	-	-	-
	Employees -----1,000—	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-
	Value added in mining ----- mil. dol.—												

<sup>1</sup>Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

**Table 4a. Summary Statistics for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year .....	1 374	Cost of supplies .....	933.1
With 0 to 19 employees .....	1 259	Supplies used, minerals received, and purchased machinery installed .....	578.6
With 20 to 99 employees .....	106	Resales .....	(D)
With 100 employees or more .....	9	Purchased fuels consumed .....	36.5
All employees:		Purchased electric energy:	
Average for year .....	1,000	Quantity .....	564.7
Payroll for year .....	mil. dol.	Cost .....	26.3
Production, development, and exploration workers:		Electric energy generated less sold .....	10.4
Average for year .....	1,000	Contract work .....	(D)
March .....	7.2	Cost of purchased communication services .....	1.9
May .....	7.7	Value of shipments and receipts .....	2 156.6
August .....	7.3	Value of resales .....	(D)
November .....	6.6	Capital expenditures during year (except land and mineral rights) .....	542.2
Hours .....	millions	New capital expenditures during year .....	244.0
January to March .....	16.0	Buildings and other structures, except land .....	9.3
April to June .....	4.3	Machinery and equipment .....	234.7
July to September .....	4.0	Used capital expenditures during year .....	9.0
October to December .....	3.8	Buildings and other structures, except land .....	6
Wages .....	mil. dol.	Machinery and equipment .....	8.4
Supplemental labor costs not included in payroll .....	do	Mineral exploration and development <sup>1</sup> .....	289.2
Legally required expenditures, including Social Security contributions .....	do	Rental payments during year .....	15.6
Payments for voluntary programs .....	do	Buildings and other structures, except land .....	3.1
Value added by mining .....	do	Machinery and equipment .....	12.5
	1 765.7	Expensed mineral exploration, development, land, and rights <sup>1, 2</sup> .....	169.8

<sup>1</sup>Excludes data for mining service industries and natural gas liquids industry where data were not collected.

<sup>2</sup>Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

**Table 4b. Inventories for the State: End of 1981 and 1982**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total inventories <sup>1</sup> .....	118.2	115.0
Detail by method of valuation:		
Subject to LIFO costing <sup>2</sup> .....		
LIFO reserve .....	3.1	3.2
LIFO value .....	.9	.9
Not subject to LIFO costing .....	2.3	2.2
Valuation method not reported <sup>3</sup> .....	65.7	60.3
Amount subject to LIFO reported without associated reserve and value <sup>4</sup> .....	49.4	51.5
	(Z)	(Z)

<sup>1</sup>Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

<sup>2</sup>Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

<sup>3</sup>Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

<sup>4</sup>Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
	Mississippi .....	E1	1 374	115	9.6	213.2	7.2	16.0	152.9	1 765.7	933.1	2 156.6	542.2	6.0	507.2
	Adams County .....	E4	114	14	1.1	21.6	.9	2.0	16.8	132.8	62.5	179.9	15.4	1.3	77.2
13	Oil and gas extraction .....	E4	111	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas .....	E2	48	2	.3	7.0	.2	.4	4.6	84.7	35.6	116.2	4.2	(NA)	(NA)
138	Oil and gas field services .....	E6	63	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	37.4
	Amite County .....	-	21	1	.1	2.1	.1	.1	1.7	8.6	4.6	10.2	3.0	(Z)	4.0
13	Oil and gas extraction .....	-	21	1	.1	2.1	.1	.1	1.7	8.6	4.6	10.2	3.0	(Z)	4.0
138	Oil and gas field services .....	-	12	1	.1	2.0	.1	.1	1.6	5.7	3.8	8.1	1.4	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup> Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
	Mississippi—Con.														
	Clarke County -----	E2	78	10	.6	14.5	.5	1.1	11.4	151.5	79.1	211.5	19.1	.2	47.8
13	Oil and gas extraction -----	E2	78	10	.6	14.5	.5	1.1	11.4	151.5	79.1	211.5	19.1	.2	47.8
131	Crude petroleum and natural gas -----	E2	40	5	.3	7.3	.2	.5	5.2	124.3	59.2	169.8	13.7	.1	43.0
132	Natural gas liquids -----	-	2	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	36	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Copiah County -----	E2	21	5	.2	3.1	.1	.3	2.6	6.5	8.8	9.6	5.6	.1	5.5
13	Oil and gas extraction -----	-	17	1	.1	1.6	.1	.1	1.5	5.5	5.1	5.3	5.3	(NA)	(NA)
138	Oil and gas field services -----	-	12	1	.1	1.6	.1	.1	1.5	4.2	(D)	5.3	(D)	(NA)	(NA)
	Covington County -----	-	18	1	.1	2.8	.1	.2	2.2	32.2	10.5	34.6	8.1	(NA)	(NA)
13	Oil and gas extraction -----	-	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	7	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Forrest County -----	E7	33	1	.1	2.4	.1	.2	1.2	16.1	16.5	30.4	2.2	.2	9.3
13	Oil and gas extraction -----	E8	31	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	7.8
131	Crude petroleum and natural gas -----	E8	10	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Franklin County -----	-	38	1	.1	1.7	.1	.2	1.4	19.6	5.7	24.4	.9	.1	9.5
13	Oil and gas extraction -----	-	37	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	9.5
131	Crude petroleum and natural gas -----	-	19	—	(Z)	.5	(Z)	(Z)	.4	15.9	3.5	19.2	.2	(Z)	7.8
138	Oil and gas field services -----	-	18	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	George County -----	-	7	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	7	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Greene County -----	-	8	1	.1	.9	(Z)	.1	.7	4.5	3.3	7.4	.4	(NA)	(NA)
13	Oil and gas extraction -----	-	8	1	.1	.9	(Z)	.1	.7	4.5	3.3	7.4	.4	(NA)	(NA)
	Hancock County -----	-	16	1	.4	11.6	.3	1.0	10.9	64.2	(D)	73.7	(D)	(Z)	8.1
13	Oil and gas extraction -----	-	16	1	.4	11.6	.3	1.0	10.9	64.2	(D)	73.7	(D)	(Z)	8.1
131	Crude petroleum and natural gas -----	-	6	—	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	10	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Hinds County -----	E6	122	14	1.0	25.7	.4	1.0	9.7	69.2	42.9	104.8	7.3	.5	14.8
13	Oil and gas extraction -----	E6	122	14	1.0	25.7	.4	1.0	9.7	69.2	42.9	104.8	7.3	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	48	12	.6	17.0	.1	.3	3.2	42.2	19.1	57.8	3.4	.2	8.5
138	Oil and gas field services -----	E3	74	2	.4	8.7	.3	.7	6.4	27.0	23.8	47.0	3.8	(NA)	(NA)
	Jackson County -----	E6	9	1	.1	1.0	.1	.1	.8	4.3	2.1	5.3	1.2	(NA)	(NA)
	Jasper County -----	-	63	7	.6	12.6	.4	.9	9.3	130.6	48.6	164.0	15.1	.2	43.9
13	Oil and gas extraction -----	-	63	7	.6	12.6	.4	.9	9.3	130.6	48.6	164.0	15.1	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	27	2	.1	4.0	.1	.1	1.8	110.8	36.4	136.1	11.1	(Z)	38.3
138	Oil and gas field services -----	E1	35	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Jefferson County -----	-	21	1	.1	1.2	.1	.1	1.1	8.2	2.6	7.6	3.2	(NA)	(NA)
13	Oil and gas extraction -----	-	21	1	.1	1.2	.1	.1	1.1	8.2	2.6	7.6	3.2	(NA)	(NA)
	Jefferson Davis County --	E1	32	2	.1	3.6	.1	.2	2.7	48.4	15.4	59.2	4.6	.1	4.9
13	Oil and gas extraction -----	E1	32	2	.1	3.6	.1	.2	2.7	48.4	15.4	59.2	4.6	(NA)	(NA)
131	Crude petroleum and natural gas -----	E2	15	1	(Z)	1.0	(Z)	(Z)	.3	41.1	10.4	49.5	2.0	(Z)	1.1
138	Oil and gas field services -----	-	17	1	.1	2.6	1	.2	2.4	7.3	5.0	9.7	2.5	(NA)	(NA)
	Jones County -----	E2	109	17	1.3	26.4	.9	2.1	16.9	123.3	56.7	147.6	32.4	.9	52.5
13	Oil and gas extraction -----	E2	107	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	52.5
131	Crude petroleum and natural gas -----	E2	29	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	14.9
138	Oil and gas field services -----	E2	78	16	1.2	23.4	.8	1.9	15.0	65.0	37.4	81.9	20.5	.8	37.6
	Lamar County -----	-	26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	29.7
13	Oil and gas extraction -----	-	25	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	29.7
131	Crude petroleum and natural gas -----	-	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E1	15	1	.1	2.1	.1	.2	1.9	4.6	5.2	6.2	3.7	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	<b>Mississippi—Con.</b>													
13	Lawrence County	-	21	-	(Z)	1.1	(Z)	.1	1.0	9.1	7.6	7.4	9.3	(NA) (NA)
13	Oil and gas extraction	-	21	-	(Z)	1.1	(Z)	.1	1.0	9.1	7.6	7.4	9.3	(NA) (NA)
13	Lincoln County	E3	49	2	.3	5.7	.2	.5	4.5	37.4	16.0	42.5	10.9	.1 8.2
13	Oil and gas extraction	E3	48	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1 8.2
131	Crude petroleum and natural gas	E2	22	-	.1	1.2	(Z)	.1	.7	23.7	9.8	25.3	8.2	(NA) (NA) (NA) (NA)
138	Oil and gas field services	E4	26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA) (NA)
13	Lowndes County	-	24	2	.1	2.0	.1	.2	1.7	16.0	(D)	13.1	(D)	(NA) (NA)
13	Oil and gas extraction	-	23	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
131	Crude petroleum and natural gas	-	6	1	(Z)	.7	(Z)	(Z)	.4	12.3	(D)	7.7	(D)	(NA) (NA)
131	Madison County	E1	14	-	(Z)	.7	(Z)	(Z)	.4	5.2	(D)	5.0	(D)	(Z) 6.0
131	Marion County	-	50	6	.4	10.8	.3	.7	6.9	205.4	72.0	242.3	35.1	.1 9.9
13	Oil and gas extraction	-	49	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
131	Crude petroleum and natural gas	-	24	2	.1	4.8	.1	.1	1.6	190.3	(D)	223.9	(D)	(Z) 8.1 (NA)
138	Oil and gas field services	E3	25	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
13	Monroe County	-	37	2	.2	3.4	.1	.3	2.3	76.3	38.5	110.5	4.3	.1 25.9
13	Oil and gas extraction	-	29	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
131	Crude petroleum and natural gas	-	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
132	Natural gas liquids	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
138	Oil and gas field services	E4	22	1	.1	1.7	.1	.2	1.3	4.6	2.4	6.2	.8	(NA) (NA) (NA)
14	Nonmetallic minerals, except fuels	-	7	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
145	Clay, ceramic, and refractory minerals	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1 3.3
145	Pike County	E1	27	1	.1	3.3	.1	.2	2.7	30.1	(D)	42.3	(D)	(NA) (NA)
13	Oil and gas extraction	E1	27	1	.1	3.3	.1	.2	2.7	30.1	(D)	42.3	(D)	(NA) (NA)
131	Crude petroleum and natural gas	E1	9	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
138	Oil and gas field services	E1	18	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
13	Rankin County	-	30	1	.1	3.7	.1	.3	3.0	54.5	56.0	59.1	51.4	.2 26.6
13	Oil and gas extraction	-	30	1	.1	3.7	.1	.3	3.0	54.5	56.0	59.1	51.4	(NA) (NA)
131	Crude petroleum and natural gas	-	9	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
138	Oil and gas field services	E1	21	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
13	Simpson County	E1	30	2	.2	4.0	.2	.4	3.4	48.9	(D)	32.1	(D)	.1 7.7
13	Oil and gas extraction	E1	29	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
131	Crude petroleum and natural gas	-	9	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
138	Oil and gas field services	E2	20	2	(Z)	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
13	Smith County	E1	29	-	.1	2.1	.1	.1	1.7	28.3	14.3	35.5	7.1	(Z) 6.1
13	Oil and gas extraction	E1	28	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z) 6.1
131	Crude petroleum and natural gas	E1	12	-	(Z)	.9	(Z)	(Z)	.7	24.7	11.1	30.3	5.5	(Z) 4.6 (NA)
138	Oil and gas field services	E1	16	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
14	Tippah County	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
14	Nonmetallic minerals, except fuels	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
145	Clay, ceramic, and refractory minerals	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
145	Walthall County	-	29	-	.1	2.3	.1	.2	2.1	38.6	20.5	40.7	18.4	(Z) 7.9
13	Oil and gas extraction	-	28	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z) 7.9
131	Crude petroleum and natural gas	-	13	-	(Z)	.3	(Z)	(Z)	.3	33.4	16.7	33.3	16.7	(Z) 6.4 (NA)
138	Oil and gas field services	-	15	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA) (NA)
13	Warren County	-	13	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
13	Oil and gas extraction	-	13	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
138	Oil and gas field services	-	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982											1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)		
		Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)								
	Mississippi—Con.															
	Wayne County	E1	47	2	.2	3.4	.1	.3	2.4	65.9	21.2	80.7	6.3	.2	23.7	
13	Oil and gas extraction	E1	46	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
131	Crude petroleum and natural gas	-	18	-	(Z)	.7	(D)	(Z)	(Z)	.5	58.9	18.1	71.8	5.3	(Z)	19.9
138	Oil and gas field services	E4	28	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Wilkinson County	-	29	2	.3	7.7	.2	.6	6.7	47.5	34.7	51.9	30.3	.1	4.8	
13	Oil and gas extraction	-	29	2	.3	7.7	.2	.6	6.7	47.5	34.7	51.9	30.3	.1	4.8	
131	Crude petroleum and natural gas	-	13	-	(Z)	.6	(Z)	(Z)	.2	27.6	(D)	27.6	(D)	(Z)	2.9	
138	Oil and gas field services	-	16	2	.3	7.1	.2	.6	6.5	19.9	(D)	24.3	(D)	(NA)	(NA)	
	Yazoo County	E3	36	3	.4	7.2	.3	.6	5.7	51.3	27.9	71.6	7.6	.2	14.1	
13	Oil and gas extraction	E3	35	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
131	Crude petroleum and natural gas	-	12	1	.1	BB	(D)	(D)	.1	1.3	34.1	18.5	48.3	4.3	(NA)	(NA)
138	Oil and gas field services	E8	23	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	

<sup>1</sup>County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.

<sup>2</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>3</sup>Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries (SIC 10)	Metal mining (SIC 11)	Anthracite mining (SIC 12)	Bituminous coal and lignite mining (SIC 13)	Oil and gas extraction (SIC 14)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Mississippi	1 374	1	-	1	1 308	64	Mississippi—Con.							
0 to 4 employees	962	1	-	-	945	16	Choctaw County	2	-	-	-	-	2	-
5 to 9 employees	178	-	-	1	166	11	0 to 19 employees	2	-	-	-	-	2	-
10 to 19 employees	119	-	-	-	100	19	Claiborne County	10	-	-	-	-	10	-
20 to 49 employees	82	-	-	-	65	17	0 to 19 employees	10	-	-	-	-	10	-
50 to 99 employees	24	-	-	-	23	1	Clarke County	78	-	-	-	-	78	-
100 to 249 employees	8	-	-	-	8	-	0 to 19 employees	68	-	-	-	-	68	-
250 to 499 employees	1	-	-	-	1	-	20 to 99 employees	10	-	-	-	-	10	-
Adams County	114	-	-	1	111	2	Clay County	15	-	-	-	-	14	1
0 to 19 employees	100	-	-	1	97	2	0 to 19 employees	15	-	-	-	-	14	1
20 to 99 employees	12	-	-	-	12	-	Coahoma County	2	-	-	-	-	2	-
100 to 249 employees	2	-	-	-	2	-	0 to 19 employees	2	-	-	-	-	2	-
Alcorn County	1	-	-	-	1	-	Copiah County	21	-	-	-	-	17	4
0 to 19 employees	1	-	-	-	1	-	0 to 19 employees	16	-	-	-	-	16	-
Amite County	21	-	-	-	21	-	20 to 99 employees	5	-	-	-	-	1	4
0 to 19 employees	20	-	-	-	20	-	Covington County	18	-	-	-	-	17	1
20 to 99 employees	1	-	-	-	1	-	0 to 19 employees	17	-	-	-	-	16	1
Benton County	2	-	-	-	2	-	20 to 99 employees	1	-	-	-	-	1	-
0 to 19 employees	2	-	-	-	2	-	De Soto County	1	-	-	-	-	1	-
Calhoun County	3	-	-	-	3	-	0 to 19 employees	1	-	-	-	-	1	-
0 to 19 employees	3	-	-	-	3	-	20 to 99 employees	1	-	-	-	-	1	-
Carroll County	2	-	-	-	1	1	Forrest County	33	-	-	-	-	31	2
0 to 19 employees	1	-	-	-	1	-	0 to 19 employees	32	-	-	-	-	31	1
20 to 99 employees	1	-	-	-	1	-	20 to 99 employees	1	-	-	-	-	1	-
Chickasaw County	14	-	-	-	14	-								
0 to 19 employees	14	-	-	-	14	-								

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

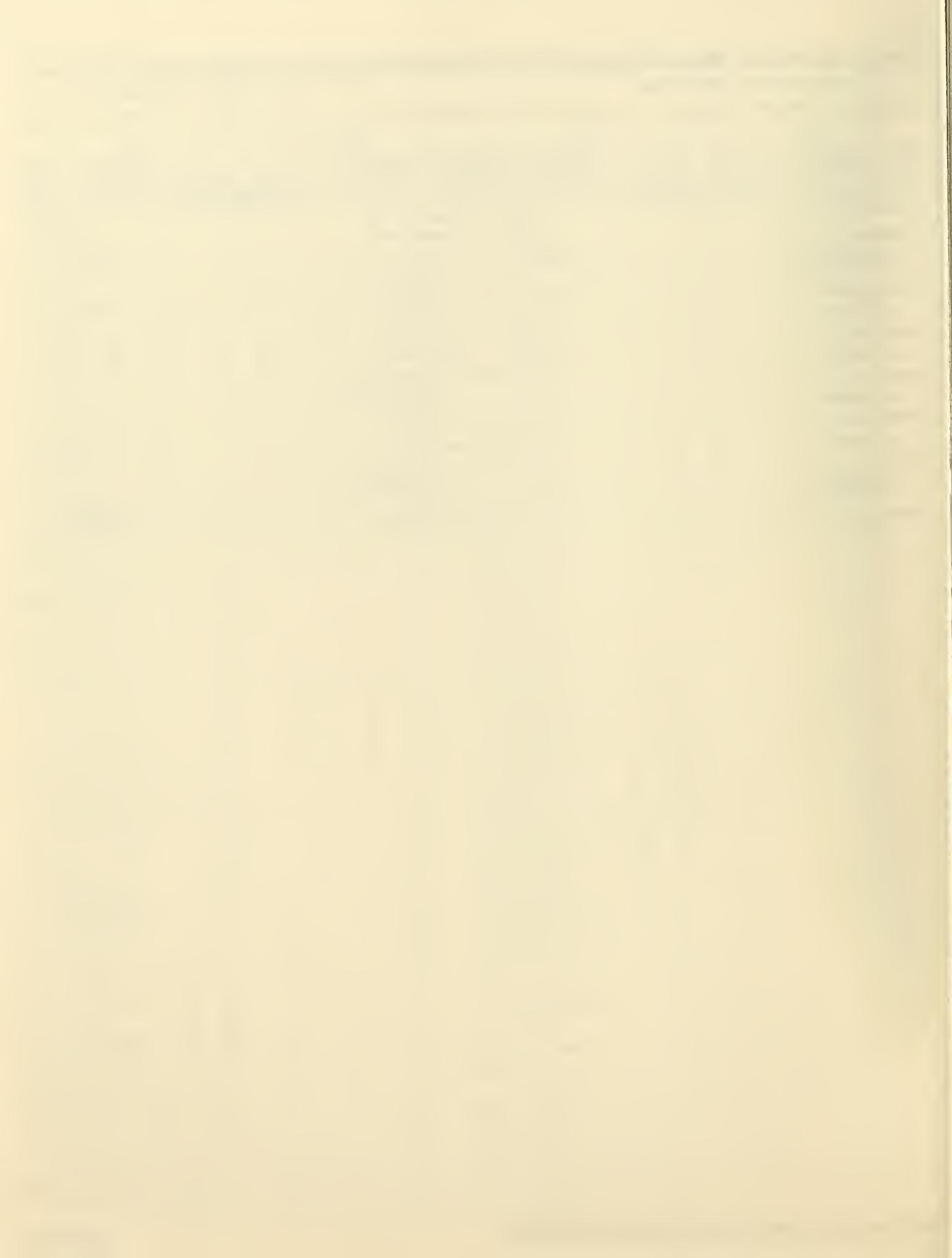
[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Mississippi—Con.							Mississippi—Con.							
Franklin County -----	38	-	-	-	37	1	Leflore County -----	6	-	-	-	-	1	5
0 to 19 employees-----	37	-	-	-	36	1	0 to 19 employees-----	2	-	-	-	-	1	1
20 to 99 employees-----	1	-	-	-	1	-	20 to 99 employees-----	4	-	-	-	-	-	4
George County -----	7	-	-	-	7	-	Lincoln County -----	49	-	-	-	-	48	1
0 to 19 employees-----	6	-	-	-	6	-	0 to 19 employees-----	47	-	-	-	-	46	1
20 to 99 employees-----	1	-	-	-	1	-	20 to 99 employees-----	2	-	-	-	-	2	-
Greene County -----	8	-	-	-	8	-	Lowndes County -----	24	-	-	-	-	23	1
0 to 19 employees-----	7	-	-	-	7	-	0 to 19 employees-----	22	-	-	-	-	22	-
20 to 99 employees-----	1	-	-	-	1	-	20 to 99 employees-----	2	-	-	-	-	1	1
Grenada County -----	3	-	-	-	2	1	Madison County -----	14	-	-	-	-	13	1
0 to 19 employees-----	3	-	-	-	2	1	0 to 19 employees-----	14	-	-	-	-	13	1
Hancock County -----	16	-	-	-	16	-	Marion County -----	50	-	-	-	-	49	1
0 to 19 employees-----	15	-	-	-	15	-	0 to 19 employees-----	44	-	-	-	-	43	1
250 employees or more -----	1	-	-	-	1	-	20 to 99 employees-----	6	-	-	-	-	6	-
Harrison County -----	6	-	-	-	5	1	Monroe County -----	37	1	-	-	-	29	7
0 to 19 employees-----	6	-	-	-	5	1	0 to 19 employees-----	35	1	-	-	-	28	6
Hinds County -----	122	-	-	-	122	-	Montgomery County -----	3	-	-	-	-	3	-
0 to 19 employees-----	108	-	-	-	108	-	0 to 19 employees-----	3	-	-	-	-	3	-
20 to 99 employees-----	13	-	-	-	13	-	20 to 99 employees-----	6	-	-	-	-	6	-
100 to 249 employees-----	1	-	-	-	1	-	Neshoba County -----	3	-	-	-	-	2	1
Holmes County -----	6	-	-	-	3	3	0 to 19 employees-----	3	-	-	-	-	2	1
0 to 19 employees-----	4	-	-	-	3	1	Newton County -----	2	-	-	-	-	2	-
20 to 99 employees-----	2	-	-	-	-	2	0 to 19 employees-----	2	-	-	-	-	2	-
Issaquena County -----	1	-	-	-	1	-	Noxubee County -----	1	-	-	-	-	-	1
0 to 19 employees-----	1	-	-	-	1	-	0 to 19 employees-----	1	-	-	-	-	-	1
Itawamba County -----	2	-	-	-	1	1	Oktibbeha County -----	3	-	-	-	-	3	-
0 to 19 employees-----	2	-	-	-	1	1	0 to 19 employees-----	3	-	-	-	-	3	-
Jackson County -----	9	-	-	-	7	2	Panola County -----	4	-	-	-	-	-	4
0 to 19 employees-----	8	-	-	-	6	2	0 to 19 employees-----	3	-	-	-	-	3	-
20 to 99 employees-----	1	-	-	-	1	-	20 to 99 employees-----	1	-	-	-	-	1	-
Jasper County -----	63	-	-	-	63	-	Pearl River County -----	10	-	-	-	-	7	3
0 to 19 employees-----	56	-	-	-	56	-	0 to 19 employees-----	9	-	-	-	-	7	2
20 to 99 employees-----	6	-	-	-	6	-	20 to 99 employees-----	1	-	-	-	-	1	-
100 to 249 employees-----	1	-	-	-	1	-	Perry County -----	14	-	-	-	-	12	2
Jefferson County -----	21	-	-	-	21	-	0 to 19 employees-----	14	-	-	-	-	12	2
0 to 19 employees-----	20	-	-	-	20	-	Pike County -----	27	-	-	-	-	27	-
20 to 99 employees-----	1	-	-	-	1	-	0 to 19 employees-----	26	-	-	-	-	26	-
Jefferson Davis County -----	32	-	-	-	32	-	20 to 99 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	30	-	-	-	30	-	Pontotoc County -----	6	-	-	-	-	6	-
20 to 99 employees-----	2	-	-	-	2	-	0 to 19 employees-----	6	-	-	-	-	6	-
Jones County -----	109	-	-	-	107	2	Rankin County -----	30	-	-	-	-	30	-
0 to 19 employees-----	92	-	-	-	90	2	0 to 19 employees-----	29	-	-	-	-	29	-
20 to 99 employees-----	16	-	-	-	16	-	20 to 99 employees-----	1	-	-	-	-	1	-
100 to 249 employees-----	1	-	-	-	1	-	Scott County -----	8	-	-	-	-	8	-
Kemper County -----	2	-	-	-	2	-	0 to 19 employees-----	8	-	-	-	-	8	-
0 to 19 employees-----	2	-	-	-	2	-	Simpson County -----	30	-	-	-	-	29	1
Lafayette County -----	5	-	-	-	3	2	20 to 99 employees-----	28	-	-	-	-	27	1
0 to 19 employees-----	5	-	-	-	3	2	0 to 19 employees-----	2	-	-	-	-	2	-
Lamar County -----	26	-	-	-	25	1	Smith County -----	29	-	-	-	-	28	1
0 to 19 employees-----	24	-	-	-	23	1	0 to 19 employees-----	29	-	-	-	-	28	1
20 to 99 employees-----	2	-	-	-	2	-	Stone County -----	8	-	-	-	-	6	2
Lauderdale County -----	1	-	-	-	1	-	0 to 19 employees-----	8	-	-	-	-	6	2
0 to 19 employees-----	1	-	-	-	1	-	Sunflower County -----	2	-	-	-	-	2	-
Lawrence County -----	21	-	-	-	21	-	0 to 19 employees-----	2	-	-	-	-	2	-
0 to 19 employees-----	21	-	-	-	21	-	Tallahatchie County -----	1	-	-	-	-	1	-
Leake County -----	3	-	-	-	3	-	0 to 19 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	3	-	-	-	3	-	Tate County -----	1	-	-	-	-	1	-
Lee County -----	3	-	-	-	3	-	0 to 19 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	3	-	-	-	3	-	0 to 19 employees-----	1	-	-	-	-	1	-

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
<b>Mississippi—Con.</b>							<b>Mississippi—Con.</b>						
<b>Tippah County</b> -----	3	-	-	-	1	2	<b>Washington County—Con.</b>						
0 to 19 employees-----	1	-	-	-	1	-	0 to 19 employees-----	5	-	-	-	4	1
20 to 99 employees -----	2	-	-	-	-	2	Wayne County -----	47	-	-	-	46	1
<b>Tishomingo County</b> -----	1	-	-	-	-	1	0 to 19 employees-----	45	-	-	-	44	1
0 to 19 employees-----	1	-	-	-	-	1	20 to 99 employees -----	2	-	-	-	2	-
<b>Tunica County</b> -----	1	-	-	-	1	-	<b>Webster County</b> -----	1	-	-	-	1	-
0 to 19 employees-----	1	-	-	-	1	-	0 to 19 employees-----	1	-	-	-	1	-
<b>Union County</b> -----	1	-	-	-	1	-	<b>Wilkinson County</b> -----	29	-	-	-	29	-
0 to 19 employees-----	1	-	-	-	1	-	0 to 19 employees-----	27	-	-	-	27	-
<b>Walthall County</b> -----	29	-	-	-	28	1	20 to 99 employees -----	1	-	-	-	1	-
0 to 19 employees-----	29	-	-	-	28	1	100 to 249 employees -----	1	-	-	-	1	-
<b>Warren County</b> -----	13	-	-	-	13	-	<b>Yalobusha County</b> -----	1	-	-	-	1	-
0 to 19 employees-----	12	-	-	-	12	-	0 to 19 employees-----	1	-	-	-	1	-
100 to 249 employees -----	1	-	-	-	1	-	20 to 99 employees -----	2	-	-	-	2	-
<b>Washington County</b> -----	5	-	-	-	4	1	100 to 249 employees -----	1	-	-	-	1	-
							<b>Offshore</b> -----	4	-	-	-	4	-
							0 to 19 employees-----	4	-	-	-	4	-



# Tennessee

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## **SUMMARY OF FINDINGS**

The total value of shipments and receipts for the 555 establishments classified in mineral industries in Tennessee was \$793 million in 1982, compared to \$559 million in 1977. Value added by mining amounted to \$498 million in 1982, and payroll in mining amounted to \$186 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons

to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Tennessee was 9.0 thousand in 1982, a decrease of 1 percent from 1977. The bituminous coal and lignite mining industry led all other mineral industries in the State, accounting for 43 percent of the State's mineral industries employment.

**Table 1. Historical Statistics for the State: 1982 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 <sup>1</sup>	2555	2117	9.0	186.1	7.4	14.6	144.3	497.7	396.8	793.1	101.4
1977	481	139	9.1	128.7	7.9	15.9	103.9	378.1	266.8	559.2	85.6
1972	353	97	7.3	61.0	6.3	13.0	48.2	152.1	101.7	225.7	28.1
1967 <sup>1</sup>	352	99	6.9	39.1	6.0	12.4	31.6	116.2	54.1	151.3	19.0
1963	503	87	6.9	32.4	6.0	12.3	27.3	90.1	49.7	126.7	13.2
1958	533	94	8.7	32.6	7.5	13.8	26.8	62.0	46.7	100.2	8.5
Excluding oil and gas extraction industries:											
1982 <sup>1</sup>	379	102	8.0	167.3	6.6	13.0	131.1	371.5	335.3	643.7	63.1
1977	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1972	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1963	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

<sup>1</sup>Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

<sup>2</sup>Not comparable to prior years. See Introduction for further explanation.

**Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982									1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	
		E1	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)					
	All mineral industries ---	E2	555	117	9.0	186.1	7.4	14.6	144.3	497.7	396.8	793.1	101.4
10	Metal mining-----	-	14	9	1.5	32.9	1.2	2.6	25.2	36.1	64.8	90.4	10.5
1021	Copper ores-----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1031	Lead and zinc ores-----	-	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
12	Bituminous coal and lignite mining-----	E2	224	54	3.9	90.6	3.4	6.3	74.3	217.1	194.3	376.2	35.2
121	Bituminous coal and lignite mining-----	E2	224	54	3.9	90.6	3.4	6.3	74.3	217.1	194.3	376.2	35.2
1211	Bituminous coal and lignite -----	E2	215	53	3.9	89.1	3.3	6.2	72.9	213.6	192.3	371.3	34.7
13	Oil and gas extraction-----	E7	176	15	1.0	18.8	.7	1.6	13.2	126.2	61.5	149.3	38.3
1311	Crude petroleum and natural gas-----	E9	74	5	.4	7.1	.2	.5	9.15	40.5	102.0	30.0	(NA)
138	Oil and gas field services-----	E2	102	10	.6	11.8	.5	1.1	9.5	34.6	21.0	47.4	8.3
1381	Drilling oil and gas wells-----	E2	41	6	.3	5.1	.2	.5	3.9	15.0	14.1	24.9	4.1
1389	Oil and gas field services, n.e.c.-----	E1	44	3	.2	5.0	.2	.5	4.1	16.4	5.1	18.1	3.4
14	Nonmetallic minerals, except fuels-----	E1	141	39	2.6	43.7	2.0	4.1	31.6	118.3	76.3	177.2	17.4
142	Crushed and broken stone, including riprap-----	E1	80	21	1.3	22.0	1.1	2.2	16.1	63.0	37.4	93.9	6.5
1422	Crushed and broken limestone-----	-	71	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4
1429	Crushed and broken stone, n.e.c.-----	E5	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel-----	E1	41	8	.5	7.2	.3	.7	5.0	19.1	12.0	27.0	4.2
1442	Construction sand and gravel-----	E1	36	8	.4	6.9	.3	.7	4.8	18.4	11.7	26.0	4.1
145	Clay, ceramic, and refractory minerals-----	-	6	6	.4	5.2	.3	.6	4.1	13.3	9.9	19.1	.4
1455	Kaolin and ball clay-----	E1	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA
147	Chemical and fertilizer mineral mining-----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
1475	Phosphate rock-----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

<sup>1</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

**Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	3	(D)	(D)	(D)	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

**Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish- ments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only			Mines with preparation plants			Separately operated prepara- tion plants	Undistrib- uted <sup>1</sup>			
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	<b>ALL MINERAL INDUSTRIES</b>													
	Establishments----- number--	555	534	255	166	31	58	118	13	100	5	10	151	
	Employees ----- 1,000--	9.0	(D)	3.2	2.3	.5	.4	4.4	1.6	2.2	.6	(D)	1.1	
	Value added in mining ----- mil. dol.--	497.7		232.1	114.7	30.4	87.0	207.3	91.9	109.0	6.5	(D)	44.0	
10	<b>METAL MINING</b>													
	Establishments----- number--	14	14	4	4	-	-	5	4	-	1	(D)	4	
	Employees ----- 1,000--	1.5	1.5	(D)	(D)	-	-	1.1	(D)	-	(D)	(D)	-	
	Value added in mining ----- mil. dol.--	36.1	36.1	-	-	-	-	26.1	-	-	-	(D)	-	
102	<b>Copper ores</b>													
	Establishments----- number--	1	1	-	-	-	-	1	-	-	1	(D)	-	
	Employees ----- 1,000--	(D)	(D)	-	-	-	-	(D)	-	-	(D)	(D)	-	
	Value added in mining ----- mil. dol.--	(D)	(D)	-	-	-	-	(D)	-	-	-	-	-	
103	<b>Lead and zinc ores</b>													
	Establishments----- number--	8	8	3	3	-	-	4	4	-	-	(D)	-	
	Employees ----- 1,000--	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-	(D)	-	
	Value added in mining ----- mil. dol.--	(D)	(D)	-	-	-	-	(D)	-	-	-	(D)	-	
104	<b>Gold and silver ores</b>													
	Establishments----- number--	1	1	1	1	-	-	-	-	-	-	-	-	
	Employees ----- 1,000--	(Z)	(Z)	(Z)	(Z)	-	-	-	-	-	-	-	-	
	Value added in mining ----- mil. dol.--	(Z)	(Z)	-	-	-	-	-	-	-	-	-	-	
108	<b>Metal mining services</b>													
	Establishments----- number--	3	3	-	-	-	-	-	-	-	-	-	3	
	Employees ----- 1,000--	(Z)	(Z)	-	-	-	-	-	-	-	-	(Z)	-	
	Value added in mining ----- mil. dol.--	.2	.2	-	-	-	-	-	-	-	-	.2	-	
109	<b>Miscellaneous metal ores</b>													
	Establishments----- number--	1	1	-	-	-	-	-	-	-	-	-	1	
	Employees ----- 1,000--	(D)	(D)	-	-	-	-	-	-	-	-	(D)	-	
	Value added in mining ----- mil. dol.--	(D)	(D)	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—  
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments	
			Total	Mines only			Mines with preparation plants				Separately operated preparation plants	Undistributed <sup>1</sup>			
				Total	Under-ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combina- tion and other methods				
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>														
	Establishments----- number--	224	222	181	162	18	1	15	7	8	-	6	20	2	
	Employees ----- 1,000--	3.9	3.9	2.4	(D)	(D)	(D)	1.1	.8	.2	-	(D)	(D)	(Z)	
	Value added in mining ----- mil. dol.--	217.1	217.1	132.8				75.6	64.6	11.0	-				
121	<b>Bituminous coal and lignite mining</b>														
	Establishments----- number--	224	222	181	162	18	1	15	7	8	-	6	20	2	
	Employees ----- 1,000--	3.9	3.9	2.4	(D)	(D)	(D)	1.1	.8	.2	-	(D)	(D)	(Z)	
	Value added in mining ----- mil. dol.--	217.1	217.1	132.8				75.6	64.6	11.0	-				
13	<b>OIL AND GAS EXTRACTION</b>														
	Establishments----- number--	176	159	57	-	-	57	-	-	-	-	-	102	17	
	Employees ----- 1,000--	1.0	(D)	(D)	-	-	(D)	-	-	-	-	-	.6	(D)	
	Value added in mining ----- mil. dol.--	126.2			-	-	(D)	-	-	-	-	-	34.6		
131	<b>Crude petroleum and natural gas</b>														
	Establishments----- number--	74	57	57	-	-	57	-	-	-	-	-	-	17	
	Employees ----- 1,000--	.4	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)	
	Value added in mining ----- mil. dol.--	91.5			-	-	(D)	-	-	-	-	-	-		
138	<b>Oil and gas field services</b>														
	Establishments----- number--	102	102	-	-	-	-	-	-	-	-	-	102	-	
	Employees ----- 1,000--	.6	-	-	-	-	-	-	-	-	-	-	.6	-	
	Value added in mining ----- mil. dol.--	34.6	34.6	-	-	-	-	-	-	-	-	-	34.6	-	
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>														
	Establishments----- number--	141	139	13	-	13	-	98	2	92	4	3	25	2	
	Employees ----- 1,000--	2.6	(D)	(D)	-	(D)	-	2.2	(D)	2.0	(D)	(D)	.2	(D)	
	Value added in mining ----- mil. dol.--	118.3			-	(D)	-	105.6	98.0				5.5		
141	<b>Dimension stone</b>														
	Establishments----- number--	5	5	5	-	5	-	-	-	-	-	-	-	-	
	Employees ----- 1,000--	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-	
	Value added in mining ----- mil. dol.--				-	(D)	-	-	-	-	-	-	-		
142	<b>Crushed and broken stone, including riprap</b>														
	Establishments----- number--	80	78	2	-	2	-	72	2	69	1	1	3	2	
	Employees ----- 1,000--	1.3	(D)	(D)	-	(D)	-	(D)	(D)	1.1	(D)	(Z)	(Z)	(D)	
	Value added in mining ----- mil. dol.--	63.0			-	(D)	-		57.8		(D)		-		
144	<b>Sand and gravel</b>														
	Establishments----- number--	41	41	3	-	3	-	18	-	15	3	2	18	-	
	Employees ----- 1,000--	.5	(D)	(D)	-	(D)	-	(D)	-	.2	(D)	(D)	.1	-	
	Value added in mining ----- mil. dol.--	19.1	19.1		-	(D)	-			9.4			2.9	-	
145	<b>Clay, ceramic, and refractory minerals</b>														
	Establishments----- number--	6	6	1	-	1	-	5	-	5	-	-	-	-	
	Employees ----- 1,000--	.4	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-	
	Value added in mining ----- mil. dol.--	13.3	13.3		-	(D)	-				-	-	-	-	

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establish-ments	Producing establishments										Nonpro- duc-ing estab- lish-ments	
			Mines only				Mines with preparation plants				Sep-a- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>		
			Total	Under-ground mines	Open pit mines	Combi-na-tion methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combi-na-tion and other methods				
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS—Con.</b>													
147	<b>Chemical and fertilizer mineral mining</b>													
	Establishments-----number--	4	4	2	-	2	-	2	-	2	-	-	-	
	Employees -----1,000--	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	
	Value added in mining ----- mil. dol.--											-	-	
148	<b>Nonmetallic minerals services</b>													
	Establishments-----number--	4	4	-	-	-	-	-	-	-	-	-	-	
	Employees -----1,000--	.1	.1	-	-	-	-	-	-	-	-	.1	-	
	Value added in mining ----- mil. 'dol.--	2.6	2.6	-	-	-	-	-	-	-	-	-	2.6	
149	<b>Miscellaneous nonmetallic minerals</b>													
	Establishments-----number--	1	1	-	-	-	-	1	-	1	-	-	-	
	Employees -----1,000--	(Z)	(Z)	-	-	-	-	(Z)	-	(Z)	-	-	-	
	Value added in mining ----- mil. dol.--											-	-	

<sup>1</sup>Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

**Table 4a. Summary Statistics for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number	555	Cost of supplies ----- mil. dol.	396.8
With 0 to 19 employees ----- do	438	Supplies used, minerals received, and purchased machinery installed ----- do	291.7
With 20 to 99 employees ----- do	104	Resales ----- do	2.8
With 100 employees or more ----- do	13	Purchased fuels consumed ----- do	25.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000	9.0	Quantity ----- mil. kWh	682.2
Payroll for year ----- mil. dol.	186.1	Cost ----- mil. dol.	27.1
Production, development, and exploration workers:		Electric energy generated less sold ----- mil. kWh	(D)
Average for year ----- 1,000	7.4	Contract work ----- mil. dol.	50.2
March ----- do	7.4	Cost of purchased communication services ----- do	.9
May ----- do	7.7	Value of shipments and receipts ----- do	
August ----- do	7.4	Value of resales ----- do	793.1
November ----- do	6.9	Capital expenditures during year (except land and mineral rights) ----- do	2.9
Hours ----- millions		New capital expenditures during year ----- do	101.4
January to March ----- do	14.6	Buildings and other structures, except land ----- do	64.6
April to June ----- do	3.6	Machinery and equipment ----- do	3.4
July to September ----- do	3.8	Used capital expenditures during year ----- do	61.2
October to December ----- do	3.7	Buildings and other structures, except land ----- do	9.6
Wages ----- mil. dol.	144.3	Machinery and equipment ----- do	.2
Supplemental labor costs not included in payroll ----- do	51.1	Mineral exploration and development <sup>1</sup> ----- do	9.4
Legally required expenditures, including Social Security contributions ----- do	21.1	Rental payments during year ----- do	27.2
Payments for voluntary programs ----- do	30.0	Buildings and other structures, except land ----- do	3.1
Value added by mining ----- do	497.7	Machinery and equipment ----- do	.5
		Expensed mineral exploration, development, land, and rights <sup>1,2</sup> ----- do	2.6
			34.6

<sup>1</sup>Excludes data for mining service industries and natural gas liquids industry where data were not collected.

<sup>2</sup>Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

**Table 4b. Inventories for the State: End of 1981 and 1982**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total inventories <sup>1</sup> -----	66.2	80.0
Detail by method of valuation:		
Subject to LIFO costing <sup>2</sup> :		
LIFO reserve -----	9.7	10.0
LIFO value -----	3.1	3.2
Not subject to LIFO costing -----	6.5	6.7
Valuation method not reported <sup>3</sup> -----	23.8	27.9
Amount subject to LIFO reported without associated reserve and value <sup>4</sup> -----	(D)	(D)
	(D)	(D)

<sup>1</sup>Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

<sup>2</sup>Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

<sup>3</sup>Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

<sup>4</sup>Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)		
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
12	Tennessee -----	E2	555	117	9.0	186.1	7.4	14.6	144.3	497.7	396.8	793.1	101.4	9.1	378.1
	Anderson County -----	E1	46	10	.6	11.5	.5	.9	9.9	39.6	23.6	54.1	9.1	.5	29.1
	Bituminous coal and lignite mining -----	E1	31	9	.5	10.2	.5	.8	9.0	30.6	(D)	47.3	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	31	9	.5	10.2	.5	.8	9.0	30.6	(D)	47.3	(D)	(NA)	(NA)
	Blount County -----	E4	6	2	.1	1.3	.1	.2	1.2	4.2	2.8	6.1	.9	(NA)	(NA)
	Campbell County -----	E4	48	9	.5	8.2	.4	.7	6.8	22.0	15.7	34.1	3.7	.8	32.5
12	Bituminous coal and lignite mining -----	E5	43	8	.4	7.4	.4	.7	6.3	19.6	(D)	30.5	(D)	.7	30.9
	Bituminous coal and lignite mining -----	E5	43	8	.4	7.4	.4	.7	6.3	19.6	(D)	30.5	(D)	.7	30.9

See footnotes at end of table.

**Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
12	Tennessee—Con. Claiborne County -----	E1	15	5	.6	16.5	.6	1.2	15.5	39.1	31.0	67.0	3.1	.6	34.0
121	Bituminous coal and lignite mining -----	E1	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Cumberland County -----	E9	28	3	.2	3.5	.2	.4	2.5	18.4	10.1	22.1	6.4	(NA)	(NA)
13	Oil and gas extraction -----	E9	18	2	.1	2.0	.1	.2	1.4	14.9	7.8	17.2	5.5	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	8	-	(Z)	.6	(Z)	(Z)	.2	10.4	(D)	11.3	(D)	(NA)	(NA)
138	Oil and gas field services -----	E9	10	2	.1	1.4	.1	.2	1.1	4.5	(D)	5.9	(D)	(NA)	(NA)
13	Davidson County -----	E8	37	7	.4	8.0	.3	.6	4.5	40.5	(D)	47.1	(D)	.3	14.7
13	Oil and gas extraction -----	E9	15	2	.1	2.4	.1	.2	1.4	30.9	(D)	32.6	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	10	2	.1	2.3	.1	.2	1.3	30.8	(D)	32.4	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	E3	13	5	.2	4.6	.2	.4	2.9	9.1	6.1	13.8	1.4	.2	10.1
142	Crushed and broken stone, including riprap -----	E3	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Fentress County -----	E1	23	3	.2	2.4	.1	.2	1.5	7.9	3.9	9.4	2.5	(NA)	(NA)
	Hamilton County -----	E3	18	3	.2	3.9	.2	.3	2.9	11.7	5.6	16.3	1.0	.2	9.5
14	Nonmetallic minerals, except fuels -----	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	5.4
142	Crushed and broken stone, including riprap -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Hardin County -----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Henry County -----	E2	5	4	.3	3.5	.2	.4	2.7	6.2	(D)	10.6	(D)	.2	6.2
14	Nonmetallic minerals, except fuels -----	E2	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
145	Clay, ceramic, and refractory minerals -----	E2	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Jefferson County -----	-	12	5	.6	12.1	.5	1.0	9.5	15.8	12.6	26.3	2.1	.7	12.2
10	Metal mining -----	-	6	4	.6	11.5	.5	1.0	9.1	14.3	(D)	24.2	(D)	(NA)	(NA)
103	Lead and zinc ores -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Knox County -----	E1	38	13	1.0	23.7	.8	1.5	17.2	52.2	48.0	91.7	8.4	.7	26.8
10	Metal mining -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
103	Lead and zinc ores -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	E1	18	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	16.7
121	Bituminous coal and lignite mining -----	E1	18	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	16.7
14	Nonmetallic minerals, except fuels -----	-	13	6	.3	5.9	.3	.6	4.5	15.7	(D)	25.0	(D)	(NA)	(NA)
142	Crushed and broken stone, including riprap -----	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel -----	-	5	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maury County -----	-	6	2	.4	8.5	.3	.6	5.7	20.0	(D)	33.9	(D)	.5	22.1
14	Nonmetallic minerals, except fuels -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Morgan County -----	E5	25	3	.2	3.4	.1	.3	2.7	17.3	7.6	22.3	2.7	.1	7.8
12	Bituminous coal and lignite mining -----	E5	11	1	.1	2.1	.1	.2	1.8	8.9	3.7	11.7	.9	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E5	11	1	.1	2.1	.1	.2	1.8	8.9	3.7	11.7	.9	(NA)	(NA)
13	Oil and gas extraction -----	E6	14	2	.1	1.4	.1	.1	1.0	8.4	3.9	10.5	1.8	(NA)	(NA)
131	Crude petroleum and natural gas -----	E7	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group <sup>1</sup>	1982										1977			
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E <sup>2</sup>	Total (number)	With 20 employees or more (number)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
	Tennessee—Con.														
	Polk County -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
10	Metal mining -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
102	Copper ores -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Putnam County -----	E9	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
13	Oil and gas extraction -----	E9	8	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
131	Crude petroleum and natural gas-----	E9	3	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
	Rhea County -----	E9	5	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
12	Bituminous coal and lignite mining -----	E9	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
121	Bituminous coal and lignite mining -----	E9	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
	Roane County -----	E9	14	1	.1	1.9	.1	.2	1.5	17.0	8.6	24.6	1.1	(NA)	(NA)
13	Oil and gas extraction -----	E9	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E9	3	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Scott County -----	E5	46	12	.6	12.5	.5	1.0	10.0	35.4	31.5	55.3	11.5	.6	46.4
12	Bituminous coal and lignite mining -----	E6	29	10	.5	9.9	.4	.8	8.2	24.8	25.7	42.9	7.6	.6	44.7
121	Bituminous coal and lignite mining -----	E6	29	10	.5	9.9	.4	.8	8.2	24.8	25.7	42.9	7.6	.6	44.7
13	Oil and gas extraction -----	E2	17	2	.1	2.6	.1	.2	1.8	10.6	5.7	12.5	3.9	(NA)	(NA)
131	Crude petroleum and natural gas-----	E2	7	1	(Z)	.7	(Z)	.1	.3	5.3	2.7	5.1	2.9	(NA)	(NA)
138	Oil and gas field services -----	E1	10	1	.1	1.9	.1	.2	1.4	5.3	3.0	7.3	1.0	(NA)	(NA)
	Squatchie County -----	E1	14	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.0
12	Bituminous coal and lignite mining -----	E1	12	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	12	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Shelby County -----	E4	21	4	.2	3.3	.1	.3	2.4	14.2	7.0	18.5	2.7	.2	10.8
13	Oil and gas extraction -----	E3	9	1	.1	1.3	(Z)	.1	.9	6.4	(D)	9.3	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	E3	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel -----	E3	8	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Smith County -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
103	Lead and zinc ores -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Sullivan County -----	E5	9	1	.1	1.3	.1	.1	1.1	5.2	2.1	6.8	.5	.1	4.0
	Washington County -----	E1	4	1	.1	1.1	(Z)	.1	.6	5.5	(D)	7.3	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	E1	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E1	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Weakley County -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
145	Clay, ceramic, and refractory minerals -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

<sup>1</sup>County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.

<sup>2</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>3</sup>Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

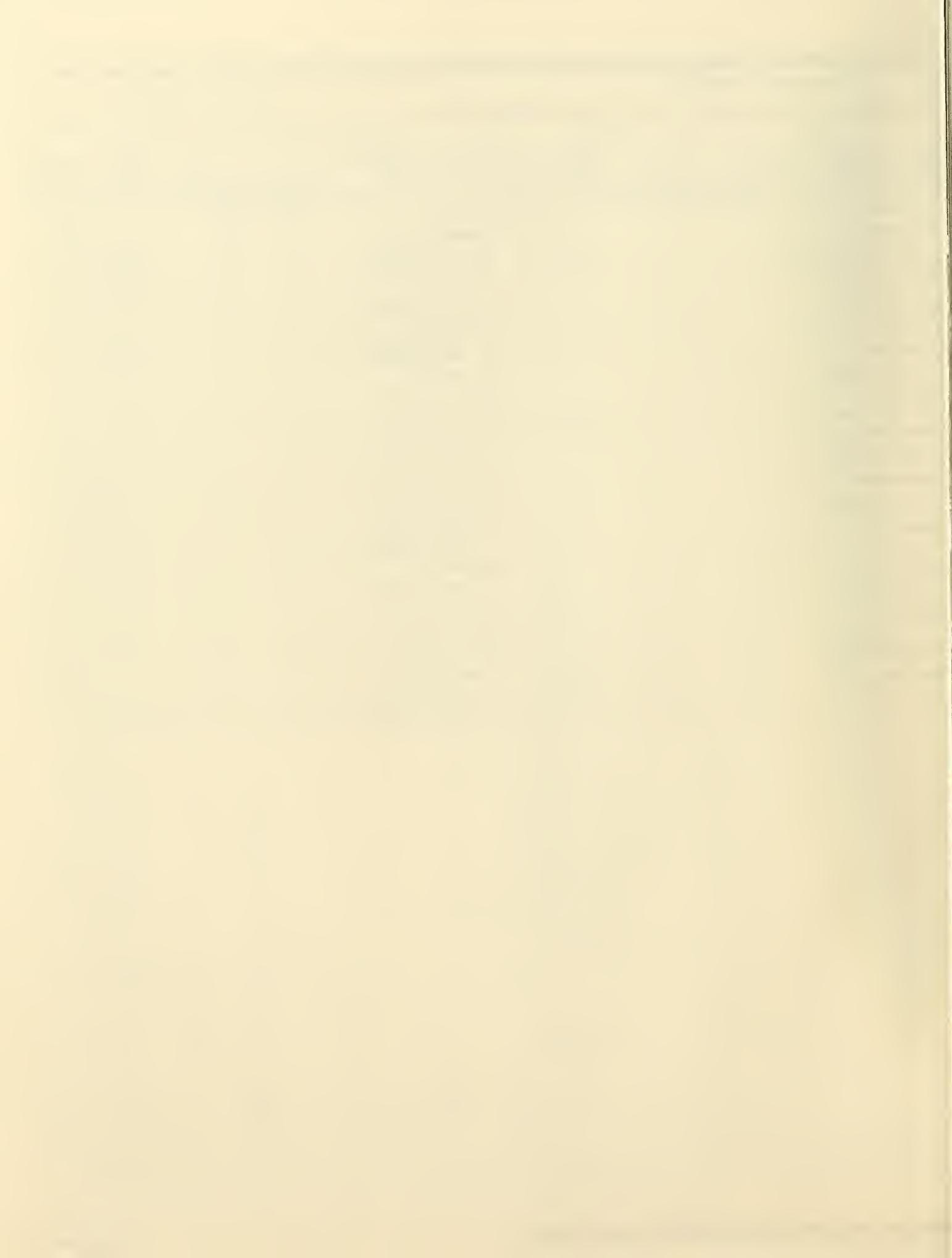
[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Tennessee -----	555	14	-	224	176	141	Tennessee—Con.							
0 to 4 employees-----	247	5	-	78	127	37	Grundy County -----	6	-	-	-	6	-	-
5 to 9 employees-----	83	-	-	38	19	26	0 to 19 employees-----	5	-	-	-	5	-	-
10 to 19 employees-----	108	-	-	54	15	39	20 to 99 employees-----	1	-	-	-	1	-	-
20 to 49 employees-----	82	-	-	41	13	28	Hamblen County -----	1	-	-	-	-	-	1
50 to 99 employees-----	22	3	-	8	2	9	0 to 19 employees-----	1	-	-	-	-	-	1
100 to 249 employees-----	9	4	-	3	-	2	Hamilton County -----	18	-	-	-	7	4	7
250 to 499 employees-----	4	2	-	2	-	-	0 to 19 employees-----	15	-	-	-	7	3	5
Anderson County -----	46	-	-	31	14	1	20 to 99 employees-----	3	-	-	-	-	1	2
0 to 19 employees-----	36	-	-	22	14	-	Hancock County -----	3	-	-	-	-	2	1
20 to 99 employees-----	10	-	-	9	-	1	0 to 19 employees-----	3	-	-	-	-	2	1
Bedford County -----	1	-	-	-	-	-	Hardin County -----	4	-	-	-	-	1	3
0 to 19 employees-----	1	-	-	-	-	-	0 to 19 employees-----	3	-	-	-	-	3	-
Benton County -----	5	-	-	-	-	-	20 to 99 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	5	-	-	-	-	-	Hawkins County -----	3	-	-	-	-	3	-
Bledsoe County -----	2	-	-	2	-	-	0 to 19 employees-----	3	-	-	-	-	3	-
0 to 19 employees-----	2	-	-	2	-	-	Henry County -----	5	-	-	-	-	1	4
Blount County -----	6	-	-	1	1	4	20 to 99 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	4	-	-	1	1	2	0 to 19 employees-----	4	-	-	-	-	4	-
20 to 99 employees-----	2	-	-	-	-	2	Hickman County -----	1	-	-	-	-	1	-
Bradley County -----	2	-	-	1	-	1	0 to 19 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	1	-	-	1	-	-	Hickman County -----	1	-	-	-	-	1	-
20 to 99 employees-----	1	-	-	-	-	-	Jackson County -----	3	-	-	-	-	3	-
Campbell County -----	48	-	-	43	2	3	0 to 19 employees-----	3	-	-	-	-	3	-
0 to 19 employees-----	39	-	-	35	2	2	Jefferson County -----	12	6	-	3	2	1	-
20 to 99 employees-----	9	-	-	8	-	1	0 to 19 employees-----	7	2	-	3	1	1	-
Carter County -----	1	-	-	-	-	-	20 to 99 employees-----	1	-	-	-	1	-	-
20 to 99 employees-----	1	-	-	-	-	-	100 to 249 employees-----	4	4	-	-	-	-	-
Cheatham County -----	3	-	-	1	1	1	Knox County -----	38	3	-	18	4	13	-
0 to 19 employees-----	3	-	-	1	1	1	0 to 19 employees-----	25	-	-	14	4	7	-
Claiborne County -----	15	-	-	13	2	-	20 to 99 employees-----	12	3	-	3	-	6	-
0 to 19 employees-----	10	-	-	8	2	-	250 employees or more-----	1	-	-	1	-	-	-
20 to 99 employees-----	4	-	-	4	-	-	Lake County -----	1	-	-	-	-	1	-
250 employees or more-----	1	-	-	1	-	-	0 to 19 employees-----	1	-	-	-	-	1	-
Clay County -----	3	-	-	-	2	1	Lincoln County -----	1	-	-	-	-	1	-
0 to 19 employees-----	3	-	-	-	2	1	0 to 19 employees-----	1	-	-	-	-	1	-
Coffee County -----	5	-	-	-	3	2	Loudon County -----	1	-	-	-	-	1	-
0 to 19 employees-----	5	-	-	-	3	2	0 to 19 employees-----	1	-	-	-	-	1	-
Crockett County -----	2	-	-	1	1	-	McMinn County -----	2	-	-	-	-	1	1
0 to 19 employees-----	2	-	-	1	1	-	0 to 19 employees-----	2	-	-	-	-	1	-
Cumberland County -----	28	-	-	3	18	7	Marion County -----	7	-	-	5	1	1	-
0 to 19 employees-----	25	-	-	3	16	6	0 to 19 employees-----	3	-	-	2	1	-	-
20 to 99 employees-----	3	-	-	-	2	1	20 to 99 employees-----	3	-	-	2	-	1	-
Davidson County -----	37	1	-	8	15	13	100 to 249 employees-----	1	-	-	1	-	-	-
0 to 19 employees-----	30	1	-	8	13	8	Maury County -----	6	-	-	-	1	5	-
20 to 99 employees-----	7	-	-	-	2	5	0 to 19 employees-----	4	-	-	-	1	3	-
Decatur County -----	4	-	-	-	-	4	100 to 249 employees-----	2	-	-	-	-	2	-
0 to 19 employees-----	3	-	-	-	-	3	Meigs County -----	1	-	-	-	-	1	-
20 to 99 employees-----	1	-	-	-	-	1	0 to 19 employees-----	1	-	-	-	-	1	-
Dickson County -----	1	-	-	-	-	-	Monroe County -----	6	-	-	-	-	1	5
0 to 19 employees-----	1	-	-	-	-	-	0 to 19 employees-----	5	-	-	-	1	4	-
Dyer County -----	1	-	-	-	-	-	20 to 99 employees-----	1	-	-	-	1	1	-
0 to 19 employees-----	1	-	-	-	-	-	Montgomery County -----	1	-	-	-	-	1	-
Fayette County -----	1	1	-	-	-	-	0 to 19 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	1	1	-	-	-	-	Moore County -----	1	-	-	-	-	1	-
Fentress County -----	23	-	-	8	13	2	0 to 19 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	20	-	-	7	12	1	20 to 99 employees-----	1	-	-	-	-	1	-
20 to 99 employees-----	3	-	-	1	1	1	Morgan County -----	25	-	-	11	14	-	
Franklin County -----	3	-	-	-	-	-	0 to 19 employees-----	22	-	-	10	12	-	
0 to 19 employees-----	1	-	-	-	-	-	20 to 99 employees-----	3	-	-	1	2	-	
20 to 99 employees-----	2	-	-	-	-	-	Obion County -----	1	-	-	-	-	1	-
Greene County -----	3	-	-	-	-	-	0 to 19 employees-----	1	-	-	-	-	1	-
0 to 19 employees-----	3	-	-	-	-	-	0 to 19 employees-----	1	-	-	-	-	1	-

**Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)	
Tennessee—Con.							Tennessee—Con.							
Overton County -----	9	-	-	-	-	8	1 Shelby County -----	21	-	-	3	9	9	
0 to 19 employees-----	8	-	-	-	-	7	0 to 19 employees-----	17	-	-	3	8	6	
20 to 99 employees -----	1	-	-	-	-	1	20 to 99 employees -----	4	-	-	-	1	3	
Pickett County -----	2	-	-	-	-	2	- Smith County -----	2	1	-	-	-	1	
0 to 19 employees-----	2	-	-	-	-	2	0 to 19 employees-----	1	-	-	-	-	1	
Polk County -----	1	1	-	-	-	-	250 employees or more -----	1	1	-	-	-	-	
250 employees or more -----	1	1	-	-	-	-	Sullivan County -----	9	-	-	5	1	3	
Putnam County -----	10	-	-	-	1	8	1	0 to 19 employees-----	8	-	-	4	1	3
0 to 19 employees-----	9	-	-	-	-	8	20 to 99 employees -----	1	-	-	1	-	-	
20 to 99 employees -----	1	-	-	-	1	-	Sumner County -----	3	-	-	1	1	1	
Rhea County -----	5	-	-	-	1	1	3	0 to 19 employees-----	3	-	-	1	1	1
0 to 19 employees-----	5	-	-	-	1	1	Union County -----	2	1	-	-	-	1	
Roane County -----	14	-	-	6	5	3	0 to 19 employees-----	2	1	-	-	-	1	
0 to 19 employees-----	13	-	-	6	4	3	Van Buren County -----	1	-	-	-	-	1	
20 to 99 employees -----	1	-	-	-	1	-	0 to 19 employees-----	1	-	-	-	1	-	
Robertson County -----	3	-	-	-	-	1	2 Warren County -----	4	-	-	-	2	2	
0 to 19 employees-----	2	-	-	-	-	1	0 to 19 employees-----	4	-	-	-	2	2	
20 to 99 employees -----	1	-	-	-	-	1	Washington County -----	4	-	-	3	-	1	
Rutherford County -----	3	-	-	-	-	1	0 to 19 employees-----	3	-	-	2	-	1	
0 to 19 employees-----	3	-	-	-	-	1	20 to 99 employees -----	1	-	-	1	-	-	
Scott County -----	46	-	-	29	17	-	Weakley County -----	2	-	-	-	-	2	
0 to 19 employees-----	34	-	-	19	15	-	20 to 99 employees -----	2	-	-	-	-	2	
20 to 99 employees -----	12	-	-	10	2	-	White County -----	4	-	-	1	1	2	
Sequatchie County -----	14	-	-	12	1	1	0 to 19 employees-----	4	-	-	1	1	2	
0 to 19 employees-----	5	-	-	3	1	1	Williamson County -----	4	-	-	-	2	2	
20 to 99 employees -----	7	-	-	7	-	-	0 to 19 employees-----	4	-	-	-	2	2	
100 to 249 employees -----	2	-	-	2	-	-	Wilson County -----	2	-	-	-	-	2	
Sevier County -----	3	-	-	-	-	2	0 to 19 employees-----	1	-	-	-	-	1	
0 to 19 employees-----	3	-	-	-	-	2	20 to 99 employees -----	1	-	-	-	-	1	



# APPENDIX A.

## Explanation of Terms

**Employment and related items**—The report forms requested separate information on production, development, and exploration workers as of a payroll period for each quarter of the year and for other employees as of the payroll period which included the 12th of March.

**All employees**—This item includes all full-time and part-time employees on the payrolls of mining establishments for any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees, but proprietors and partners of unincorporated firms are excluded.

**Production, development, and exploration workers**—This category includes employees (up through the working supervisor level) engaged in manual work: using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards. Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Supervisory employees above the working supervisor level are excluded from this category.

**All other employees**—Nonproduction personnel at the establishment include those engaged in the following activities: Supervision above the working supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal,

personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

**Separately operated auxiliary establishments employees**—This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments were classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

**All employees, average for year**—The 1982 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

**Payroll**—This term includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages. As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States. Respondents were told that in reporting they could follow the definition of payroll used for calculating the Federal withholding tax.

**Production, development, and exploration worker hours**—This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repairpersons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight-time equivalent hours. Hours of working proprietors or partners are excluded.

**Supplemental Labor Costs**—This item represents employer's cost for fringe benefits not included in payrolls.

**Legally required expenditures, including social security contributions**—This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

**Payments for voluntary programs**—Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

**Value added by mining**—This measure of mining activity is derived by subtracting the cost of supplies used, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

**Cost of supplies used, purchased machinery installed, etc.**—Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1982 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year.

Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Separate figures were requested for: (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments; or such overhead costs as depreciation charges, rent, interest, and royalties.

**Value of shipments and receipts**—The amounts shown as value of shipments and receipts for each industry are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges. "Shipments" include all products physically shipped from the establishment during 1982, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1982. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value, i.e., to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes: (1) the value of all "primary" products of the industry, (2) the value of "secondary" products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products.

Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

**Capital expenditures**—This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1982 were to be determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures were to include work done on contract, as well as by the mine forces.

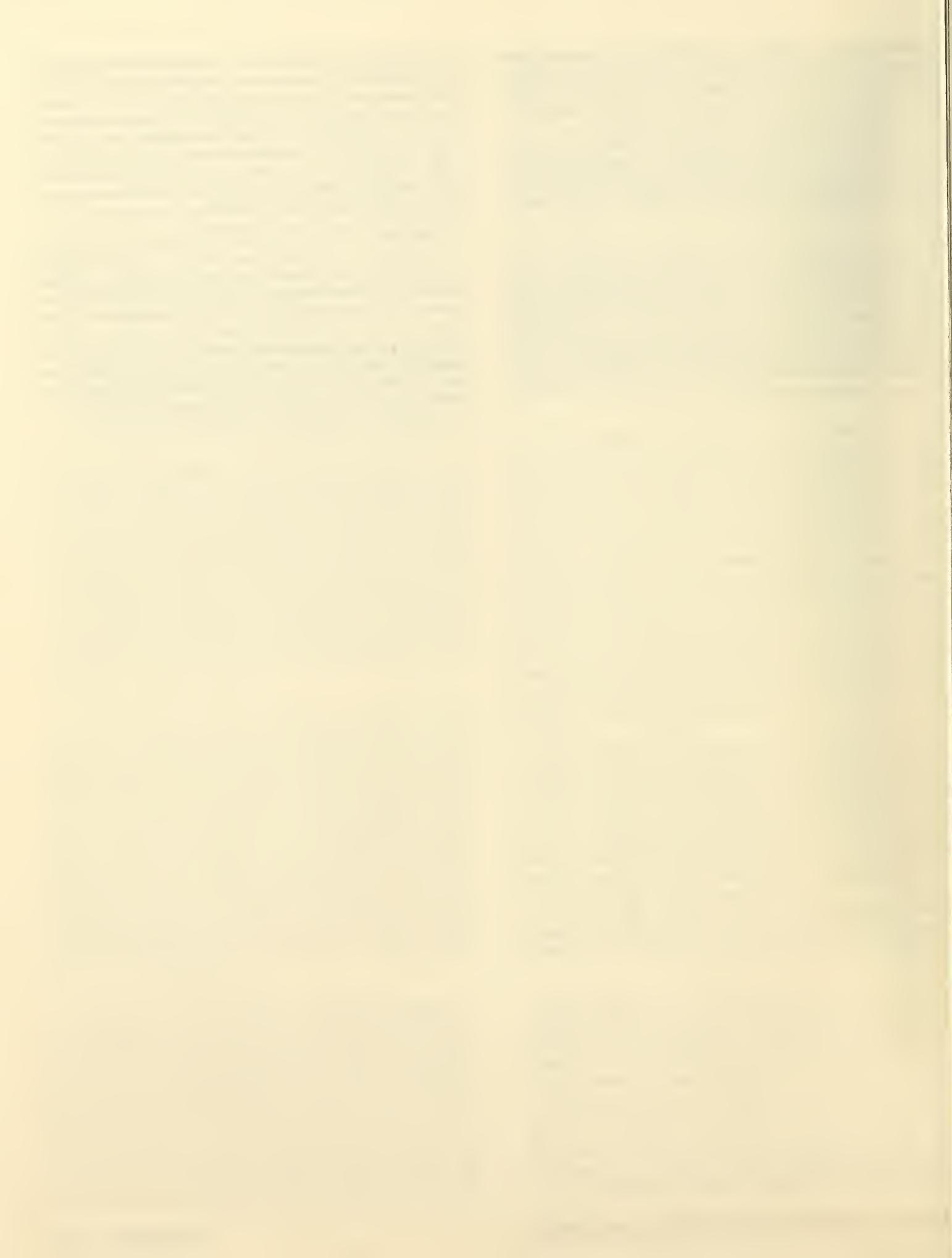
Expenditures for machinery and equipment were to include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

**Rental payments**—This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

**Current account expenditures**—This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

**Inventories**—This item includes inventories of mined or quarried products, and supplies, parts, fuels, etc., at the beginning and end of the year. Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.



# **APPENDIX B.**

## **Geographic Divisions and States**

### **NEW ENGLAND STATES**

Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont  
North and Mid-Atlantic Offshore

### **MIDDLE ATLANTIC STATES**

New Jersey  
New York  
Pennsylvania

### **EAST NORTH CENTRAL STATES**

Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin

### **WEST NORTH CENTRAL STATES**

Iowa  
Kansas  
Minnesota  
Missouri  
Nebraska  
North Dakota  
South Dakota

### **SOUTH ATLANTIC STATES**

Delaware  
District of Columbia  
Florida  
Georgia  
Maryland

### **SOUTH ATLANTIC STATES—Con.**

North Carolina  
South Carolina  
Virginia  
West Virginia  
South Atlantic Offshore

### **EAST SOUTH CENTRAL STATES**

Alabama  
Kentucky  
Mississippi  
Tennessee

### **WEST SOUTH CENTRAL STATES**

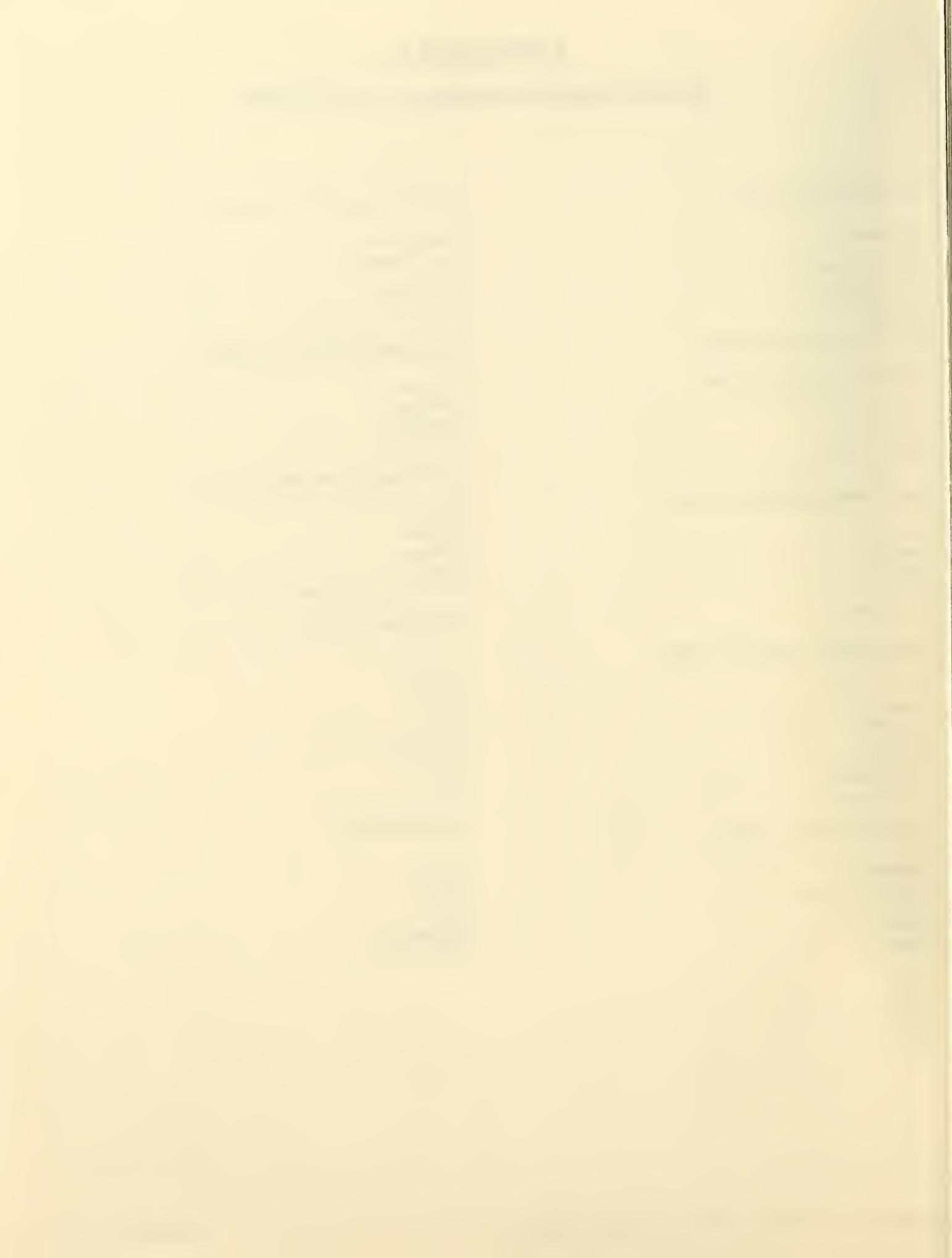
Arkansas  
Louisiana  
Oklahoma  
Texas  
Northern Gulf of Mexico Offshore

### **MOUNTAIN STATES**

Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming

### **PACIFIC STATES**

Alaska  
California  
Hawaii  
Oregon  
Washington  
Pacific Offshore



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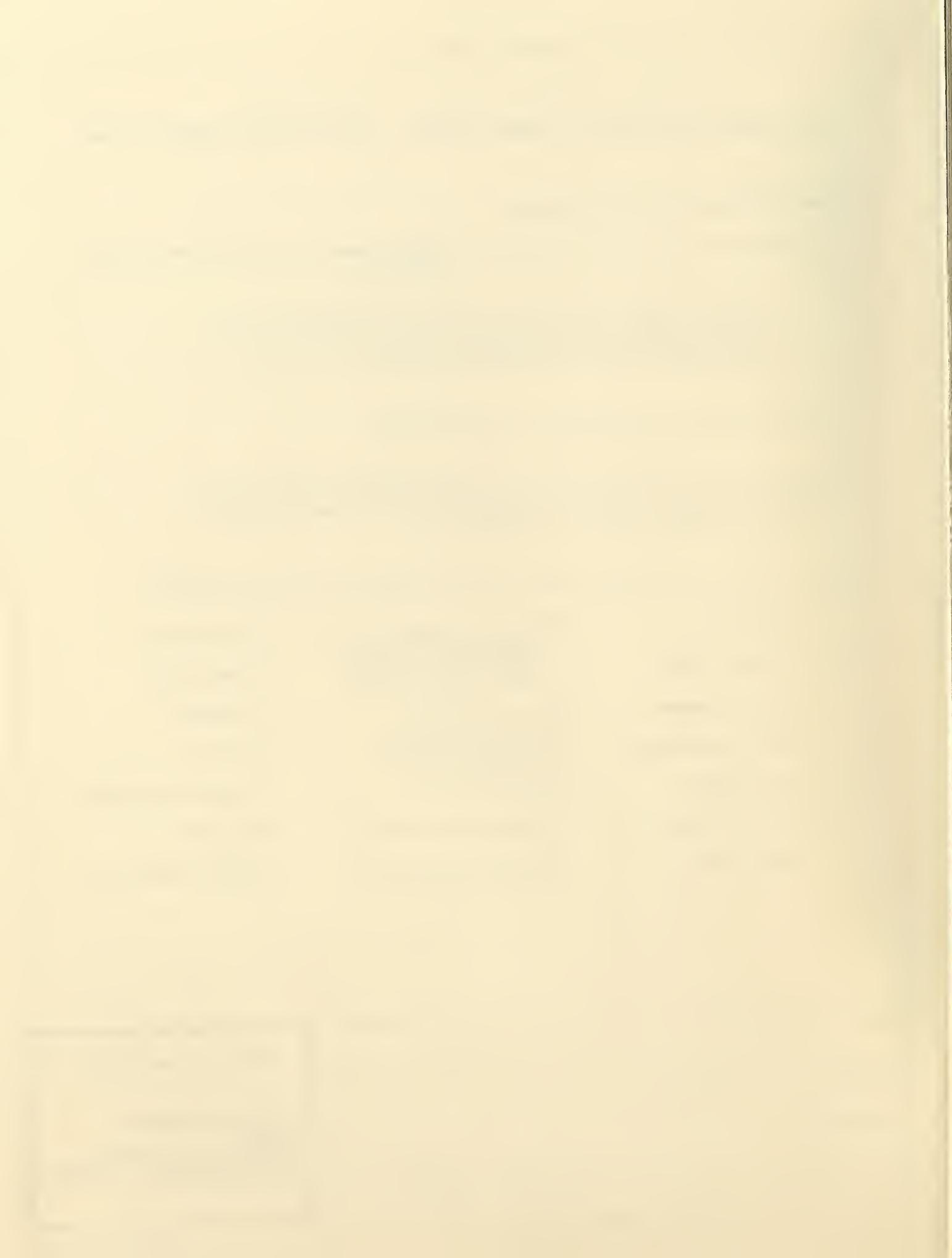
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# PUBLICATION PROGRAM

## 1982 CENSUS OF MINERAL INDUSTRIES

Publications of the 1982 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

### Preliminary Reports

Preliminary data from the 1982 census have been issued in 12 industry and 2 summary reports covering all of the 42 mineral industries. These reports are superseded by more detailed final reports.

### Final Reports

Final detailed statistics are issued in separate paperbound reports.

#### Industry series—12 reports (MIC82-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory mineral)s). Final figures for the United States are shown for each of 42 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased, quantity of fuel stocks, and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization and depletion; payrolls; hours worked; cost of purchased machinery; value added by mining; mineral development and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

#### Geographic area series—9 reports (MIC82-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States for two- and three-digit industry groups by type of operation and by county. Also, data are shown for value of shipments, value added by mining, employment, payroll, hours worked, capital expenditures, cost of supplies, etc., purchased machinery

installed, and number of mining establishments, with comparative 1977 data on employment and value added by mining.

#### Subject series—7 reports (MIC82-S-1 to -7)

Each of the 7 reports contains detailed statistics for an individual subject, such as water use in mineral industries; gross value of depreciable assets, capital expenditures, retirements, depreciation and rental payments; size of establishments; type of operation; fuels and electric energy consumed; type of organization; and a general National-level summary.

### Final Report Volume

Final paperbound reports are subsequently assembled and reissued in one clothbound volume.

### Microfiche

All published data are also available on microfiche.

### Availability of Public Use Computer Tapes

Public-use computer tapes for the census of mineral industries are not included as part of the economic census publication program. Special tabulations can be made available on computer tape on a contract, cost-reimbursable basis. Contact Industry Division, Bureau of the Census, Washington, D.C. 20233 for more information.

## OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, manufactures, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U.S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

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